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- GRAY SCALE DOCUMENTS

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(FILE 'HOME' ENTERED AT 18:36:10 ON 01 JUN 2003)

FILE 'CAPLUS' ENTERED AT 18:36:14 ON 01 JUN 2003

L1 304 S CYPROCONAZOLE  
L2 3881 S TRIADIMEFON OR TRIADIMENOL OR BITERTANOL OR TEBUCONAZOLE OR  
P  
L3 96 S L1 (P) L2  
L4 72 S L1 (3A) L2  
L5 41 S L1 (A) L2  
L6 741 S (RICINOLE? OR CREPREN? OR VERNOL?) (2A) ESTER  
L7 86 S (RICINOLE? OR CREPREN? OR VERNOL?) (A) ESTER  
L8 190061 S SURFACTANT  
L9 190213 S SURFACTANT OR EMULSIFER  
L10 2055216 S COMPOSITION OR FORMULATION  
L11 5 S L7 (P) L9  
L12 1 S L7 (P) L9 (P) L10  
L13 2177345 S ALKYL OR METHYL OR ETHYL  
L14 196 S L6 (2A) L13  
L15 0 S L14 (P) L9 (P) L10  
L16 0 S L14 (P) L9  
L17 3 S L7 (2A) L13

FILE 'REGISTRY' ENTERED AT 19:15:04 ON 01 JUN 2003

L18 1 S CREPENYNIC ACID/CN  
L19 1 S VERNOLIC ACID/CN

FILE 'CAPLUS, USPATFULL' ENTERED AT 19:19:08 ON 01 JUN 2003

L20 12 S (CREPEN? OR VERNOL?) (2A) ?ESTER  
L21 0 S L20 AND L9

(FILE 'HOME' ENTERED AT 18:36:10 ON 01 JUN 2003)

FILE 'CAPLUS' ENTERED AT 18:36:14 ON 01 JUN 2003

L1 304 S CYPROCONAZOLE  
L2 3881 S TRIADIMEFON OR TRIADIMENOL OR BITERTANOL OR TEBUCONAZOLE OR  
P  
L3 96 S L1 (P) L2  
L4 72 S L1 (3A) L2  
L5 41 S L1 (A) L2  
L6 741 S (RICINOLE? OR CREPREN? OR VERNOL?) (2A) ESTER  
L7 86 S (RICINOLE? OR CREPREN? OR VERNOL?) (A) ESTER  
L8 190061 S SURFACTANT  
L9 190213 S SURFACTANT OR EMULSIFER  
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L11 5 S L7 (P) L9  
L12 1 S L7 (P) L9 (P) L10  
L13 2177345 S ALKYL OR METHYL OR ETHYL  
L14 196 S L6 (2A) L13  
L15 0 S L14 (P) L9 (P) L10  
L16 0 S L14 (P) L9  
L17 3 S L7 (2A) L13

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L73 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 140-04-5 REGISTRY

CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, [R-(Z)]-

CN Ricinoleic acid, butyl ester, acetate (6CI, 7CI, 8CI)

OTHER NAMES:

CN Bakers P 6

CN Baryl

CN Butyl acetyl ricinoleate

CN Flexricin P 6

FS STEREOSEARCH

DR 26302-38-5

MF C24 H44 O4

LC STN Files: AQUIRE, BEILSTEIN\*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, DETHERM\*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PDLCOM\*, TOXCENTER, USPAT2, USPATFULL

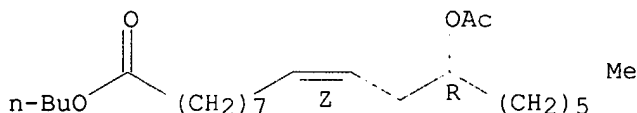
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

51 REFERENCES IN FILE CA (1957 TO DATE)

51 REFERENCES IN FILE CAPLUS (1957 TO DATE)

4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:12371

REFERENCE 2: 137:338626

REFERENCE 3: 137:129570

REFERENCE 4: 137:37389

REFERENCE 5: 136:228374

REFERENCE 6: 134:32785

REFERENCE 7: 130:353075

REFERENCE 8: 124:97840

REFERENCE 9: 123:244642

REFERENCE 10: 123:200625

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=&gt; d stat que 130 nos

L1 STR  
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 L3 STR  
 L4 23930 SEA FILE=REGISTRY SUB=L2 SSS FUL L3  
 L5 685 SEA FILE=REGISTRY ABB=ON PLU=ON SURFACTAN?  
 L6 221 SEA FILE=REGISTRY ABB=ON PLU=ON ETHYL(L) LACTATE  
 L8 36604 SEA FILE=HCAPLUS ABB=ON PLU=ON L4  
 L9 254587 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?SURFACTANT?  
 L10 5753 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ETHYL(2A) LACT?  
 L11 7427 SEA FILE=HCAPLUS ABB=ON PLU=ON POLYOXYETHYLENE(2A) (SORBITAN  
 OR ?LAUREAT? OR NONYLPHENYL OR NONYL(W) PHENYL)  
 L18 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND (?NEMATOD? OR NEMATIC?)  
 L19 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L9 OR L10 OR L11)  
 L20 28 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 NOT L19  
 L21 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 NOT NEMATIC  
 L22 80 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND (RICI? OR CREPEN? OR  
 Verno?)  
 L23 745 SEA FILE=HCAPLUS ABB=ON PLU=ON L22  
 L24 124 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND (L9 OR L10 OR L11)  
 L26 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND (?NEMATOD? OR  
 ?NEMATOC? OR ?PESTICI? OR ?NEMATOS?)  
 L27 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 NOT (L19 OR L21)  
 L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND AGROCHEM?  
 L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 NOT (L19 OR L21)  
 L30 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 OR L27

=&gt; d ibib abs hitstr 130 1-3

L30 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:220297 HCAPLUS

DOCUMENT NUMBER: 136:228374

TITLE: Controlled release pesticide formulations  
containing a matrix polymer and a plasticizer

INVENTOR(S): Asrar, Jawed; Essinger, James F., Jr.

PATENT ASSIGNEE(S): Monsanto Technology, L.L.C., USA

SOURCE: PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002021913	A2	20020321	WO 2001-US28531	20010912
WO 2002021913	A3	20020926		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002103086	A1	20020801	US 2001-950114	20010910
AU 2001090825	A5	20020326	AU 2001-90825	20010912
PRIORITY APPLN. INFO.:			US 2000-232693P	P 20000915
			US 2001-950114	A 20010910

WO 2001-US28531 W 20010912

•AB Controlled release formulations for **pesticides** and herbicides contain an active ingredient, a matrix polymer and a matrix polymer plasticizer which is present in an amt. sufficient to provide a release rate for the active ingredient from the formulation that matches a selected release rate.

IT 9003-39-8, Poly(vinylpyrrolidone)

RL: MOA (Modifier or additive use); USES (Uses)

(matrix polymer for controlled release **pesticide** formulations)

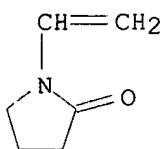
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O



IT 140-04-5, Butyl acetyl ricinoleate 1338-39-2, Sorbitan monolaurate 1338-43-8, Sorbitan monooleate

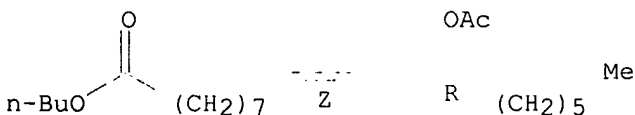
RL: MOA (Modifier or additive use); USES (Uses)

(polymer plasticizer for controlled release **pesticide** formulations)

RN 140-04-5 HCAPLUS

CN 9-Octadecenoic acid, 12-(acetyloxy)-, butyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7

CMF C12 H24 O2

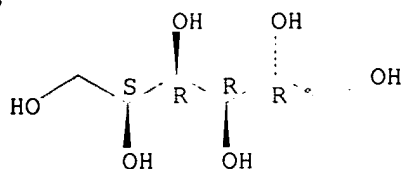
HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>10</sub> Me

CM 2

CRN 50-70-4

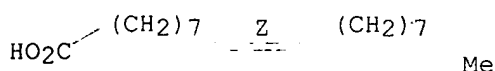
CMF C6 H14 O6

Absolute stereochemistry.



RN 1338-43-8 HCAPLUS  
 CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 112-80-1  
 CMF C18 H34 O2

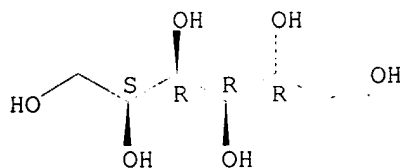
Double bond geometry as shown.



*Surfactant*

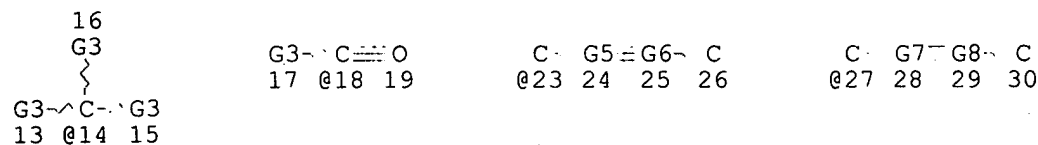
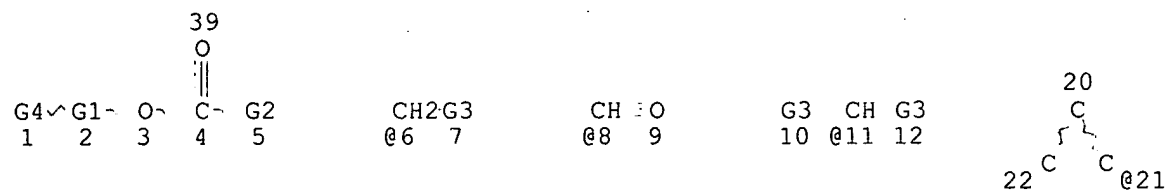
CM 2  
 CRN 50-70-4  
 CMF C6 H14 O6

Absolute stereochemistry.



L30 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1981:78426 HCAPLUS  
 DOCUMENT NUMBER: 94:78426  
 TITLE: Concentrated oil in water emulsions with  
 pesticidal activity  
 PATENT ASSIGNEE(S): Shell Internationale Research Maatschappij B. V.,  
 Neth.  
 SOURCE: Neth. Appl., 19 pp.  
 CODEN: NAXXAN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Dutch  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 8001713	A	19800930	NL 1980-1713	19800324
CA 1142850	A1	19830315	CA 1980-346528	19800227
AU 8056766	A1	19801002	AU 1980-56766	19800324
AU 535901	B2	19840412		
JP 55130901	A2	19801011	JP 1980-36323	19800324
JP 63062481	B4	19881202		



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VAR G2=23/27/31/35  
VAR G3=OH/X/N/CN/21  
VAR G4=CH3/6/8/11/14/18  
REP G5=(8-8) C  
REP G6=(5-9) C  
REP G7=(11-11) C  
REP G8=(2-6) C

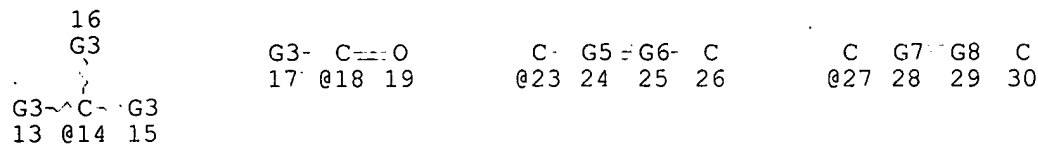
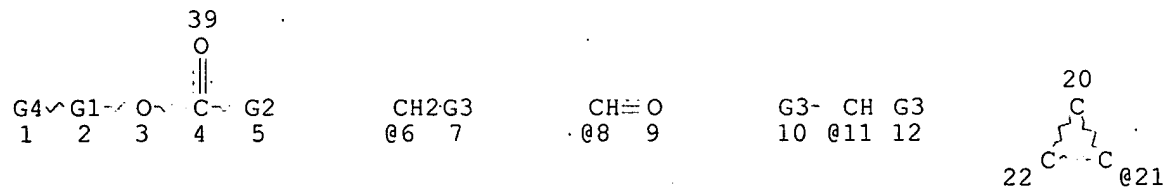
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DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L4 23930 SEA FILE=REGISTRY SUB=L2 SSS FUL L3  
L5 685 SEA FILE=REGISTRY ABB=ON PLU=ON SURFACTAN?  
L6 221 SEA FILE=REGISTRY ABB=ON PLU=ON ETHYL(L) LACTATE  
L8 36604 SEA FILE=HCAPLUS ABB=ON PLU=ON L4  
L9 254587 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ?SURFACTANT?  
L10 5753 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 OR ETHYL(2A) LACT?  
L11 7427 SEA FILE=HCAPLUS ABB=ON PLU=ON POLYOXYETHYLENE(2A) (SORBITAN  
OR ?LAUREAT? OR NONYLPHENYL OR NONYL(W) PHENYL)  
L18 32 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 AND (?NEMATOD? OR NEMATIC?)  
L19 4 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND (L9 OR L10 OR L11)  
L20 28 SEA FILE=HCAPLUS ABB=ON PLU=ON L18 NOT L19  
L21 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 NOT NEMATIC  
L22 80 SEA FILE=REGISTRY ABB=ON PLU=ON L4 AND (RICI? OR CREPEN? OR  
VERNO?)  
L23 745 SEA FILE=HCAPLUS ABB=ON PLU=ON L22  
L24 124 SEA FILE=HCAPLUS ABB=ON PLU=ON L23 AND (L9 OR L10 OR L11)  
L26 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND (?NEMATOD? OR  
?NEMATOC? OR ?PESTICI? OR ?NEMATOS?)  
L27 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L26 NOT (L19 OR L21)  
L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND AGROCHEM?  
L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L28 NOT (L19 OR L21)  
L30 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L29 OR L27  
L31 STR





REP G1=(0-4) C  
VAR G2=23/27/31/35  
VAR G3=OH/X/N/CN/21  
VAR G4=CH3/6/8/11/14/18

REP G5=(9-9) C  
REP G6=(4-8) C  
REP G7=(12-12) C  
REP G8=(1-6) C

NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

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L34 7280 SEA FILE=HCAPLUS ABB=ON PLU=ON L33 AND (L9 OR L10 OR L11)  
L35 73 SEA FILE=HCAPLUS ABB=ON PLU=ON L34 AND (?NEMATOD? OR  
?NEMATOC? OR ?PESTICI? OR NEMATOS?)  
L36 68 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 NOT (L19 OR L21 OR L30)  
L37 60 SEA FILE=HCAPLUS ABB=ON PLU=ON L36 AND PD<=MARCH 4, 2002

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=> d ibib abs hitstr 137 1-60

L37 ANSWER 1 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:609961 HCAPLUS  
DOCUMENT NUMBER: 137:136370  
TITLE: Agricultural adjuvant comprising lower alkanol ester  
of a fatty acid and an emulsifier package  
INVENTOR(S): Lachut, Frank J.  
PATENT ASSIGNEE(S): Cognis Corporation, USA  
SOURCE: U.S., 6 pp., Cont.-in-part of U.S. Ser. No. 986,493,  
abandoned.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6432884	B1	20020813	US 1998-205530	19981203
CA 2313193	AA	19990617	CA 1998-2313193	19981208 <--
WO 9929171	A1	19990617	WO 1998-US25706	19981208 <--
<p>W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG</p>				
AU 9916243	A1	19990628	AU 1999-16243	19981208 <--
AU 742967	B2	20020117		
EP 1037528	A1	20000927	EP 1998-960713	19981208 <--
<p>R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI</p>				
BR 9813423	A	20001010	BR 1998-13423	19981208 <--
NZ 504772	A	20010831	NZ 1998-504772	19981208 <--
JP 2002504480	T2	20020212	JP 2000-523857	19981208 <--
<p>PRIORITY APPLN. INFO.: US 1997-986493 B2 19971208 US 1998-205530 A 19981203 WO 1998-US25706 W 19981208</p>				
AB	<p>Compsns. useful as adjuvants for agricultural chem. formulations are comprised of a lower alkanol ester of a fatty acid and an emulsifier package. The emulsifier package is comprised of a nonionic <b>surfactant</b> selected from the group consisting of an ethoxylated castor oil, an alkoxyated castor oil, an ethylene-propylene block copolymer, an ethoxylated-propoxylated alkyl phenol, an ethoxylated sorbitan fatty acid ester, a sorbitan fatty acid ester and an anionic <b>surfactant</b> selected from the group consisting of an ethoxylated partial phosphate ester, alkyl sulfate, an alkyl ether sulfate, a branched alkyl benzene sulfonate, a linear alkyl benzene sulfonate and an alpha olefin sulfonate. The adjuvants exhibit particularly good electrolyte tolerance and are stable to hard water when used in combination with fertilizers.</p>			
IT	<p>111-62-6, Ethyl oleate. RL: MOA (Modifier or additive use); USES (Uses) (agricultural adjuvant contg.)</p>			
RN	111-62-6 HCAPLUS			
CN	9-Octadecenoic acid (9Z)-, ethyl ester (9CI) (CA INDEX NAME)			

$$\text{Me} \cdots (\text{CH}_2)_7 \cdots \text{Z} \cdots (\text{CH}_2)_7 \cdots \text{OEt}$$

L37 ANSWER 2 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:208483 HCAPLUS  
DOCUMENT NUMBER: 137:1921  
TITLE: Alkoxyated glyceride emulsifiers in agricultural applications

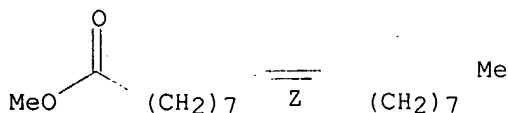
AUTHOR(S): Anderson, Timothy H.; Mainx, Hans-Georg  
 CORPORATE SOURCE: Agrosolutions Group, Cognis Corporation, Cincinnati, OH, 45232, USA  
 SOURCE: ASTM Special Technical Publication (2001), STP 1414 (Pesticide Formulations and Application Systems: A New Century for Agricultural Formulations, Twenty First Volume), 136-144  
 CODEN: ASTTA8; ISSN: 0066-0558  
 PUBLISHER: American Society for Testing and Materials  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Ethoxylated glycerides have long been known as effective and safe nonionic emulsifiers. They have been used in applications as diverse as food processing, textile applications, fiber finishes, leather processing, metal working, cosmetics, pharmaceuticals, and of course, as agricultural other ingredients. In addn. to their excellent emulsifying properties for oils, fats and solvents, ethoxylated triglycerides are widely recognized for their favorable human and ecotoxicol. profiles. They are a preferred choice whenever sensitive environments must be protected and in cosmetic applications where they are known to mitigate the irritation potential of more aggressive **surfactants**. Current United States Environmental Protection Agency regulations restrict the choices available to agricultural formulators to a single triglyceride, castor oil, with between 5 and 54 mol of ethoxylation on growing crops, raw agricultural commodities and animals. No other ethoxylated or alkoxyated glycerides are specifically approved or located on the "List of 2500", although some companies may have letters in their files allowing specific usage. Unfortunately the agricultural formulator choosing a castor-based **surfactant** is exposed to cyclical price swings. This would be lessened greatly if alternatives based on soybean or canola oil were found to be satisfactory. The present work examines the emulsification properties of several alkoxyated glycerides derived from canola oil. Comparisons are drawn with examples of castor oil and castor wax ethoxylates. The systems studied included a selection of solvent-based Emulsifiable Conc. (EC) formulations as well as a commonly used Me ester.

IT 112-62-9, Methyl oleate  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (alkoxyated glyceride emulsifiers in agricultural formulations contg.)

RN 112-62-9 HCAPLUS  
 CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

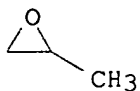


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 3 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:31607 HCAPLUS  
 DOCUMENT NUMBER: 136:87557  
 TITLE: Structured **surfactant** systems with solid-suspending properties  
 INVENTOR(S): Hawkins, John; Messenger, Edward Tunstall; Rivera-Healy, Zenaida; Clapperton, Richard Malcolm; Rollinson, Mark  
 PATENT ASSIGNEE(S): Huntsman International LLC, USA  
 SOURCE: PCT Int. Appl., 74 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002730	A1	20020110	WO 2001-EP7661	20010704 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1297103	A1	20030402	EP 2001-957917	20010704
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
PRIORITY APPLN. INFO.:			GB 2000-16522	A 20000706
			GB 2000-19161	A 20000805
			GB 2000-19818	A 20000812
			GB 2000-26171	A 20001026
			GB 2000-28186	A 20001118
			GB 2000-31173	A 20001221
			GB 2001-3476	A 20010213
			GB 2001-5426	A 20010306
			GB 2001-6118	A 20010313
			GB 2001-8940	A 20010410
			GB 2001-12889	A 20010526
			GB 2001-14256	A 20010612
			WO 2001-EP7661	W 20010704
AB	A structured <b>surfactant</b> compn. comprises (A) a non-aq. continuous phase preferably comprising an org. liq., and (B) a spherulite phase-forming cationic or anionic <b>surfactant</b> having .gtoreq.2 C7-30 hydrophobic aliph. groups per mol., or a heteropolar <b>surfactant</b> , e.g., amphoteric <b>surfactant</b> or amine oxide. The aliph. groups preferably comprise bent chain groups, e.g., cis-monounsaturated alkenyl e.g. erucyl or singly branched alkyl, e.g., isopalmityl. For example, a pourable, non-sedimenting liq. laundry detergent formulation with spherulitic phase compn., which could be packed in 88%-hydrolyzed poly(vinyl acetate) sachets and heat-sealed, contained ethoxylated (2 EO) C12-14 alcs. 44.7, C12-14 alkylbenzenesulfonate Ca salt 2.2, Prifac 7909 9.7, ethoxylated (50 EO) C12-14 alcs., Ca(OH)2 3.0 and Na tripolyphosphate.cntdot.H2O 40.0%.			
IT	106392-12-5, Ethylene oxide-Propylene oxide block copolymer 387839-84-1 RL: TEM (Technical or engineered material use); USES (Uses) (structured <b>surfactant</b> systems with solid-suspending properties)			
RN	106392-12-5 HCAPLUS			
CN	Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)			
CM	1			
CRN	75-56-9			
CMF	C3 H6 O			



CM 2

CRN 75-21-8  
CMF C2 H4 O

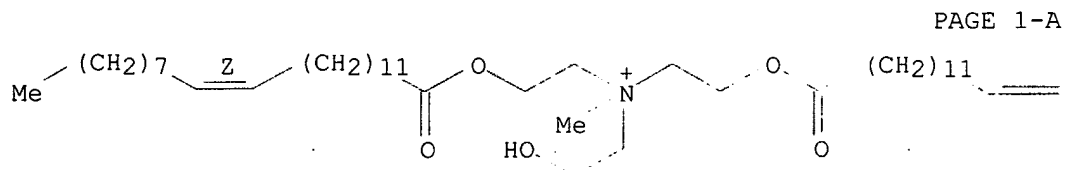


RN 387839-84-1 HCAPLUS  
CN Ethanaminium, N-(2-hydroxyethyl)-N-methyl-2-[[[(13Z)-1-oxo-13-docosenyl]oxy]-N-[2-[[[(13Z)-1-oxo-13-docosenyl]oxy]ethyl]-, (13Z)-13-docosenoate (salt) (9CI) (CA INDEX NAME)

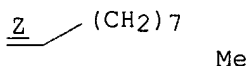
CM 1

CRN 387839-83-0  
CMF C51 H98 N O5

Double bond geometry as shown.



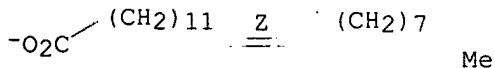
PAGE 1-B



CM 2

CRN 15620-46-9  
CMF C22 H41 O2

Double bond geometry as shown.

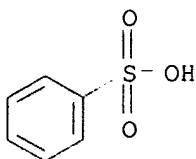


IT 98-11-3D, Benzenesulfonic acid, C12-14 alkyl derivs., ethanolamine salts

RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants; structured surfactant systems with solid-suspending properties)

RN 98-11-3 HCAPLUS

CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 4 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:704 HCAPLUS

DOCUMENT NUMBER: 137:16590

TITLE: ICCVAM Evaluation of the Murine Local Lymph Node Assay

AUTHOR(S): Haneke, Karen E.; Tice, Raymond R.; Carson, Bonnie L.; Margolin, Barry H.; Stokes, William S.

CORPORATE SOURCE: National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods, National Institute of Environmental Health Sciences, Research Triangle Park, NC, 27709, USA

SOURCE: Regulatory Toxicology and Pharmacology (2001), 34(3), 274-286  
CODEN: RTOPLD; ISSN: 0273-2300

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB To evaluate the reliability of the murine local lymph node assay (LLNA), a test for allergic contact dermatitis activity, the inter- and intralab. consistency statistics (h and k, resp.) were calcd. for validation studies testing multiple chems. The anal. indicated the absence of excessive variability in the dose calcd. to induce a threefold or greater increase in the stimulation index (SI). To assess the appropriateness of using an SI of 3 as the decision criteria for identifying a sensitizing compd., LLNA results based on SI values of 2.0, 2.5, 3.0, 3.5, and 4.0 were compared with guinea pig or human results. The results supported the use of an SI of 3 as the decision criteria. Assay performance was detd. by comparing LLNA results to results obtained for guinea pigs or humans. The accuracy of the LLNA was 89% when compared with results from the guinea pig maximization test (GPMT)/Buehler assay (BA). The performance of the LLNA and the GPMT/BA was similar when each was compared to human maximization test results plus substances included as human patch test allergens. The LLNA offered advantages over the GPMT in respect to both the time required to conduct the test and the assay cost. (c) 2001 Academic Press.

IT 151-21-3, Sodium lauryl sulfate, biological studies  
433282-35-0

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(ICCVAM evaluation of murine local lymph node assay)

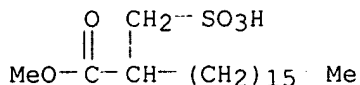
RN 151-21-3 HCAPLUS

CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)

HO<sub>3</sub>SO--(CH<sub>2</sub>)<sub>11</sub>-Me

Na

RN 433282-35-0 HCAPLUS  
CN Octadecanoic acid, 2-(sulfomethyl)-, 1-methyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 5 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:868135 HCAPLUS  
DOCUMENT NUMBER: 135:368032  
TITLE: A bioinsecticide formulation consisting of *Bacillus thuringiensis* var. *israelensis*, and its manufacture proceedings  
INVENTOR(S): Gomes Sanches, Elizabeth; Batista da Silva, Ana Cristina; Abreu Campos, Flavia Maria; Pinheiro Roberg, Renata Alves; De Assuncao, Fernando Justino  
PATENT ASSIGNEE(S): Fundacao Oswaldo Cruz - Fiocruz, Brazil  
SOURCE: PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001089297	A2	20011129	WO 2001-BR63	20010524 <--
WO 2001089297	A3	20020411		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000003314	A	20020102	BR 2000-3314	20000524 <--
EP 1283676	A2	20030219	EP 2001-937885	20010524
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			BR 2000-3314	A 20000524
			WO 2001-BR63	W 20010524

AB The principal aim of the present invention is to afford a bioinsecticide dry compn. based on entomotoxins of *Bacillus thuringiensis* var *israelensis*, which is characterized by its practicability, economy and efficacy in controlling Dipteran insects, being, at the same time, ecol. safe. Thus, the principal objective of this invention is to get a bioinsecticide dry formulation, comprising : (a) entomotoxins, pure or not, of *Bacillus thuringiensis* var *israelensis*; (b) chem. dryers; (c) dispersing agents; (d) agglutinant/humectant agents; (e) protectors against sunlight; and (f) optionally, diluent, lubricant and neutralizing agents. A first embodiment of this invention is related to a bioinsecticide formulation dispensed as dry powder, or tablets, comprising additives carrying the entomotoxins, pure or not, selected in way to afford a high dispersion of the active component in the application area, but bringing about no risks to the environment. A second embodiment of this invention is related to the proceedings for obtaining of

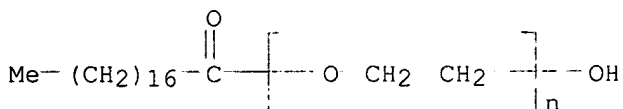
bioinsecticide formulation, delineated by the following phases: (I) Development of *Bacillus thuringiensis* var *israelensis* by means of fermn. in a suitable growth medium, where the not spent metabolites/nutrients are not harmful to the environment and they may be used in an industrial scale; (II) the recovery of toxic biomass, or its spores, or only entomotoxins gotten in the phase (I) by means of a suitable process of recuperation, able to keep the toxic activity of entomotoxins (pure or not); (III) sequential addn. of chem. dryers, and other additives to the toxic biomass, or to the spores, or only to the entomotoxins recovered as mentioned in the phase (II); occasionally, the accomplishment of a dehydration phase between joining the chem. dryers and the other additives; (IV) dehydration of the blend obtained in the phase (III), by means of process able to keep the toxic activity of entomotoxins pure or not, in order to obtain a formulation dispensed as dry powder; V) optional addn. of additives, as diluents, lubricants, and neutralizing agents to the dry powder obtained in the phase (IV), in order to produce the tablets.

IT 151-21-3, Sodium lauryl sulfate, uses 9004-99-3, Polyoxyethylene stearate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (agglutinant/humectant in bioinsecticide formulation contg. *Bacillus thuringiensis* var. *israelensis*)  
 RN 151-21-3 HCAPLUS  
 CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)

HO<sub>3</sub>SO—(CH<sub>2</sub>)<sub>11</sub>—Me

● Na

RN 9004-99-3 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



L37 ANSWER 6 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:762777 HCAPLUS  
 DOCUMENT NUMBER: 135:334992  
 TITLE: Stable aqueous **surfactant** compositions  
 containing acrylate copolymers as rheology modifiers  
 INVENTOR(S): Schmucker-Castner, Julie F.; Ambuter, Hal; Snyder, Marcia; Weaver, Ashley A.; Kotian, Sahira V.  
 PATENT ASSIGNEE(S): Noveon IP Holdings Corp., USA  
 SOURCE: PCT Int. Appl., 87 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001076552	A2	20011018	WO 2001-US40480	20010411 <--



WO 2001076552 A3 20020919

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,  
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,  
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,  
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1272159 A2 20030108 EP 2001-931125 20010411

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.:

US 2000-547595 A 20000411

WO 2001-US40480 W 20010411

AB A stable, aq. compn. comprises a substantially crosslinked alkali-swellable acrylate copolymer rheol. modifier, a **surfactant**, an alk. material, and various compds. therein, as for example substantially insol. materials requiring suspension or stabilization, such as a silicone, an oily material, or a pearlescent material. Addnl., this invention also relates to the formation of a rheol. and phase stable cationic hair dye compn. The invention further relates to the incorporation of an acidic material after the addn. of an alk. material to reduce the pH of the compn. without neg. impacting the viscosity of the compn. For example, a pearlized 3-in-1 conditioning shampoo was prepd. from (part A) an acrylate crosspolymer 4.0%, 25% sodium laureth sulfate 25.0%, 18% NaOH 0.75%, and water up to 100%, (part B) 18% NaOH 0.05%, guar hydroxypropyltrimonium chloride 0.3%, and water up to 100%, (part C) 50% lauryl glucoside 4.0%, 29% sodium lauryl sulfate 15.0%, Euperlan PK-3000 3.0%, DC 1664 Emulsion 3.0%, 35% cocamidopropylbetaine 3.0%, Lamesoft PO-65 1.0%, fragrance 0.50%, Phenonip 0.50%, and 50% citric acid 0.40%. The conditioning shampoo obtained was a stable, satiny, pearlized viscous liq. of pH 5.5-5.8 and **surfactant** activity of 13.7%.

IT 151-21-3, Standapol WAQ Special, biological studies

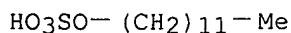
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(Standapol WAQ Special; stable aq. **surfactant** compns. contg.

crosslinked alkali-swellable acrylate copolymers as rheol. modifiers)

RN 151-21-3 HCAPLUS

CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)



● Na

IT 111-60-4, Ethylene glycol monostearate 22047-49-0,

Cetiol 868 84750-06-1, Arlacel 165

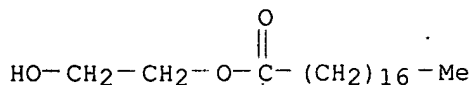
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(stable aq. **surfactant** compns. contg. crosslinked

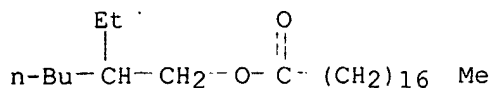
alkali-swellable acrylate copolymers as rheol. modifiers)

RN 111-60-4 HCAPLUS

CN Octadecanoic acid, 2-hydroxyethyl ester (9CI) (CA INDEX NAME)



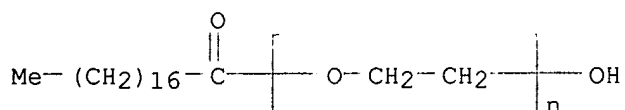
RN 22047-49-0 HCAPLUS  
CN Octadecanoic acid, 2-ethylhexyl ester (9CI) (CA INDEX NAME)



RN 84750-06-1 HCAPLUS  
CN Octadecanoic acid, monoester with 1,2,3-propanetriol, mixt. with .alpha.-(1-oxooctadecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9004-99-3  
CMF (C2 H4 O)<sub>n</sub> C18 H36 O2  
CCI PMS

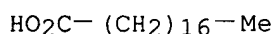


CM 2

CRN 31566-31-1  
CMF C21 H42 O4  
CCI IDS

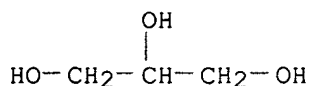
CM 3

CRN 57-11-4  
CMF C18 H36 O2



CM 4

CRN 56-81-5  
CMF C3 H8 O3



L37 ANSWER 7 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:753990 HCAPLUS  
DOCUMENT NUMBER: 135:284567  
TITLE: Wetting agent compositions containing low- and high-melting-point **surfactants** for agrochemical **pesticides**

INVENTOR(S): Yamaguchi, Takehiko; Kurita, Kazuhiko; Hayashi, Shoji  
 PATENT ASSIGNEE(S): Kao Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001288006	A2	20011016	JP 2000-107922	20000410 <--
WO 2001076365	A1	20011018	WO 2001-JP3047	20010409 <--

W: KR, US  
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR  
 EP 1273230 A1 20030108 EP 2001-919839 20010409  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR

PRIORITY APPLN. INFO.: JP 2000-107922 A 20000410  
 WO 2001-JP3047 W 20010409

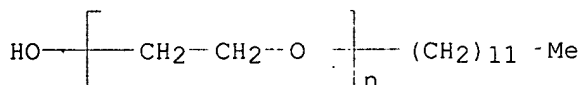
AB The compns., which show stability at low temp., contain .gtoreq.50 wt.% **surfactants** consisting of (A) **surfactants** with m.p. 20-60.degree. and (B) **surfactants** with m.p. .ltoreq.0.degree. and 10-45 wt.% H2O. A wetting agent comprising 90 wt.% 1:1 mixt. of polyoxyethylene lauryl ether and polyoxyethylene coco amine deriv. and 10 wt.% H2O showed no sepn. or coagulation after storage at 10.degree. for 5 days.

IT 9002-92-0, Polyoxyethylene lauryl ether 9004-98-2, Polyoxyethylene oleyl ether 9004-99-3, Polyoxyethylene monostearate

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (wetting agents contg. low- and high-m.p. **surfactants** for agrochem. **pesticides**)

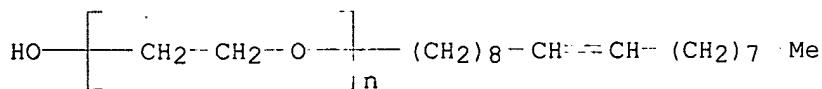
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



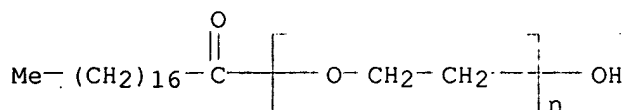
RN 9004-98-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 8 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:661307 HCAPLUS

DOCUMENT NUMBER: 135:231754

TITLE: Preparation of nanocapsules with polyelectrolyte envelope and liposome core

INVENTOR(S): Panzner, Steffen; Endert, Gerold; Essler, Frank; Behrens, Anja; Lutz, Silke; Panzner, Cornelia

PATENT ASSIGNEE(S): Novosom G.m.b.H., Germany

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001064330	A1	20010907	WO 2001-EP2397	20010302 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10010264	A1	20010913	DE 2000-10010264	20000302 <--
EP 1289642	A1	20030312	EP 2001-923626	20010302
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: DE 2000-10010264 A 20000302

WO 2001-EP2397 W 20010302

AB The invention concerns the nanoencapsulation of liposomes with layers of oppositely charged polyelectrolytes in order to increase the stability of liposomes. Microcapsules with a diam. of 20 nm to 40 .mu.m are prep'd. The liposome template particles are provided in an aq. medium, elec. recharged with a polyelectrolyte, recharged again with a second polyelectrolyte that is complementary to the first polyelectrolyte without intermediate sepg. or washing steps, and continuing, if required, this process with alternately charged polyelectrolytes. Crosslinking of the obtained structure using e.g. glutaraldehyde can be added. The method is used for the prepn. of microcrystals, drug delivery systems, herbicides, **pesticides** and pigments. Thus 20 mol% DPPC and 80 mol% DPPG were dissolved in isopropanol; the solvent was evap'd. in vacuum. The lipid was rehydrated in buffer to result a 25 mM suspension, this was followed by freezing, thawing and filtration through a 200 nm polycarbonate membrane. The obtained liposomes were dild. with buffer to 0.2 mM; 1 mg/L and 5 mg/L solns. of albumin and heparin were prep'd. The polymer solns. were added to the liposomes one at a time; the procedure was repeated three times, thus resulting six layers. The product was treated with glutaraldehyde, dialyzed and conc'd. The nanoparticles were stable in 150 mM sodium chloride; injected into Wistar rats; the rats survived at least for 24 h.

IT 9003-39-8, Polyvinylpyrrolidone 132172-61-3, N-[1-(2,3 Dioleoyl(oxy)propyl)-N,N,N-trimethylammoniumchloride

RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (prepn. of nanocapsules with polyelectrolyte envelope and liposome core)

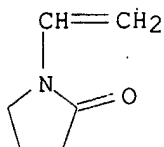
RN 9003-39-8 HCAPLUS

CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0

CMF C6 H9 N O

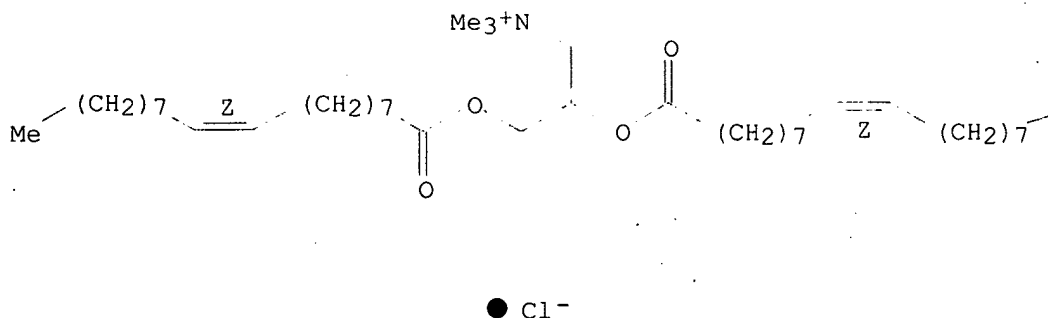


RN 132172-61-3 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-2,3-bis[[ (9Z)-1-oxo-9-octadecenyl]oxy]-, chloride (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

Me

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 9 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:493021 HCAPLUS

DOCUMENT NUMBER: 136:243278

TITLE: Field evaluation of non-pesticide chemicals as honey bee repellents

AUTHOR(S): Mayer, D. F.; Lunden, J. D.; Kovacs, G.; Miliczky, E. R.

CORPORATE SOURCE: Department of Entomology, Irrigated Agriculture Research & Extension Center, Washington State University, Prosser, WA, 99350, USA

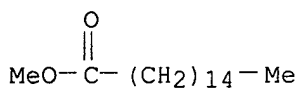
SOURCE: Colloques - Institut National de la Recherche  
Agronomique (2001), 98(Hazards of Pesticides  
to Bees), 159-168  
CODEN: COLIEZ; ISSN: 0293-1915  
PUBLISHER: Institut National de la Recherche Agronomique  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Bee poisoning from **pesticides** is a serious problem worldwide.  
Major concern exists for the safety of honey bees (*Apis mellifera* L.) as  
valuable pollinators of many horticultural crops. One way of reducing the  
**pesticide** hazard to bees is to apply a chem. repellent that will  
discourage bees from foraging on crops for an interval after a bee hazard  
**pesticide** has been applied. During 1990-1998, the authors  
conducted field tests on blooming apples (*Malus domestica* Borkh.),  
dandelions (*Taraxacum officinale* G. Weber, in Wiggers), buckwheat  
(*officinale*) and white Dutch clover (*officinale*) plants to evaluate their  
repellent effect to foraging honey bees. Evaluations were made by slowly  
walking through the plots and counting the no. of honey bees (30 s/6.7  
m/0.91 m swath) except for apples where they were counted by slowly moving  
around and counting the no. of honey bees (30 s/1 tree) at 1 and 4 h.  
after application. The authors evaluated about 240 non-**pesticide**  
chems. Eleven chems. significantly reduced the no. of honey bee foragers  
at 1 h. after application but not at 4 h. In some tests, but not all, 10  
chems. significantly reduced the no. of honey bee foragers at 1 h. after  
application but not at 4 h. One chem. significantly reduced the no. of  
honey bee foragers at 1 h. and 4 h. after application. In some tests, but  
not all, 2 chems. significantly reduced the no. of honey bee foragers at 4  
h. after application but not at 1 h.

IT 112-39-0, Palmitic acid methyl ester 9004-99-3  
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL  
(Biological study); USES (Uses)  
(field evaluation of non-**pesticide** chems. as honey bee  
repellents)

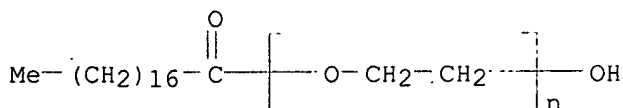
RN 112-39-0 HCAPLUS

CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI)  
(CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 10 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:355080 HCAPLUS

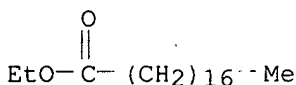
DOCUMENT NUMBER: 134:337134

TITLE: Chlorinated phenoxy herbicides formulations containing  
alkylated fatty acids or natural oils

INVENTOR(S): Roberts, Johnnie R.; Volgas, Greg

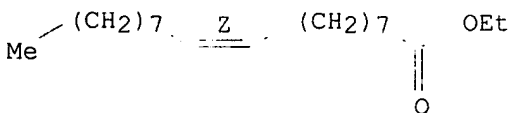
PATENT ASSIGNEE(S): Helena Chemical Company, USA

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RN      111-61-5  HCAPLUS
CN      Octadecanoic acid, ethyl ester (9CI)  (CA INDEX NAME)
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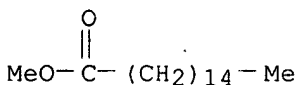


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RN      111-62-6  HCAPLUS
CN      9-Octadecenoic acid (9Z)-, ethyl ester (9CI)  (CA INDEX NAME)
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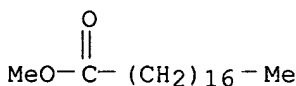
Double bond geometry as shown.



RN 112-39-0 HCAPLUS  
CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



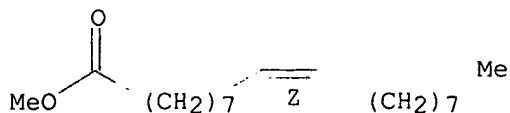
RN 112-61-8 HCAPLUS  
CN Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

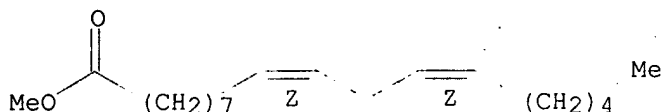
Double bond geometry as shown.



RN 112-63-0 HCAPLUS

CN 9,12-Octadecadienoic acid (9Z,12Z)-, methyl ester (9CI) (CA INDEX NAME)

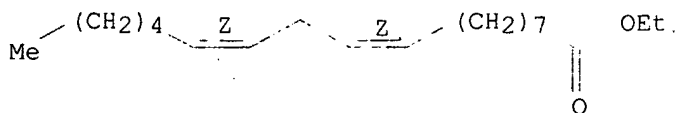
Double bond geometry as shown.



RN 544-35-4 HCAPLUS

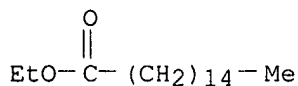
CN 9,12-Octadecadienoic acid (9Z,12Z)-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 628-97-7 HCAPLUS

CN Hexadecanoic acid, ethyl ester (9CI) (CA INDEX NAME)



IT 106392-12-5, Ethylene oxide-propylene oxide block copolymer

RL: MOA (Modifier or additive use); USES (Uses)

(phosphate esters; chlorinated phenoxy herbicides formulations contg.)

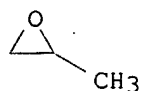
RN 106392-12-5 HCAPLUS

CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9

CMF C3 H6 O



CM 2

CRN 75-21-8

CMF C2 H4 O



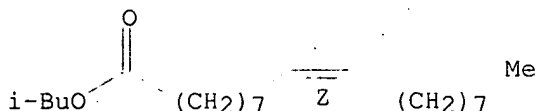


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 11 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:237813 HCAPLUS  
 DOCUMENT NUMBER: 134:248334  
 TITLE: Storage-stable aqueous suspensions for direct application to flooded paddy fields  
 INVENTOR(S): Kitamura, Mika; Yamashita, Hideo; Hattanda, Satoshi  
 PATENT ASSIGNEE(S): Hokkai Sankyo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001089307	A2	20010403	JP 1999-261755	19990916 <--
PRIORITY APPLN. INFO.:			JP 1999-261755	19990916
AB The suspensions contain 4-(2,4-dichlorobenzoyl)-1,3-dimethylpyrazol-5-yl toluene-4-sulfonate (pyrazolate) (I), <b>surfactants</b> selected from polyoxyalkylene alkyl ether phosphates, poly(vinyl alc.), phenylphenol phosphate ester salts, and polyoxyalkylene bis(styrylphenyl) ether, org. acid ester solvents, and H <sub>2</sub> O. An aq. suspension contg. 10.0% I and 2.0% KP 1436 (phenylphenol phosphate ester salt) showed 0.63% decompn. of I after 2-wk storage at 50.degree. under dark.				
IT 10024-47-2, Isobutyl oleate				
RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)				
(solvents; storage-stable aq. suspensions contg. pyrazolate for direct application to flooded paddy fields)				
RN 10024-47-2 HCAPLUS				
CN 9-Octadecenoic acid (9Z)-, 2-methylpropyl ester (9CI) (CA INDEX NAME)				

Double bond geometry as shown.



L37 ANSWER 12 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:861426 HCAPLUS  
 DOCUMENT NUMBER: 134:14303  
 TITLE: Water-free liquid dithiocarbamate fungicide formulations  
 INVENTOR(S): Kober, Reiner; Krohl, Thomas; Oetter, Gunter; Borzyk, Oliver; Jager, Karl-Friedrich; Grosjean, Olivier; Fricke, Hans-Michael; Vizoso-Sansano, Sergi; Ziegler, Hans  
 PATENT ASSIGNEE(S): Basf Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 30 pp.  
 CODEN: PIXXD2

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000072681	A1	20001207	WO 2000-EP4887	20000529 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000011100	A	20020226	BR 2000-11100	20000529 <--
EP 1180935	A1	20020227	EP 2000-938700	20000529 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

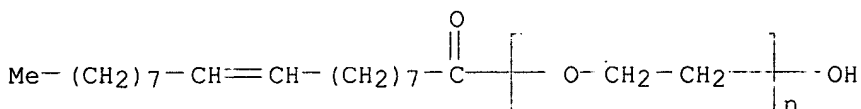
PRIORITY APPLN. INFO.: DE 1999-19924981 A 19990531  
 WO 2000-EP4887 W 20000529

AB The invention relates to dithiocarbamate liq. formulations which are devoid of water, comprising: 10-70 wt. % dithiocarbamate; 10-89 wt. % water-free oil phase; 1-40 wt. % polyhydroxystearic acid or a deriv. thereof and/or an alkyl or alkenyl glycerin ether ethoxylate; and 0-40 wt. % anionic **surfactant**.

IT 9004-96-0, Emulan A 61909-81-7, Solutol HS 15  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (water-free liq. dithiocarbamate fungicide formulations contg.)

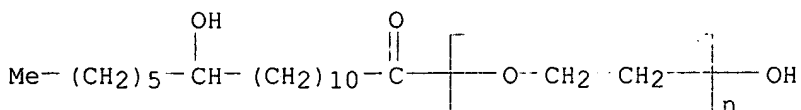
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 61909-81-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(12-hydroxy-1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 13 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:814247 HCAPLUS

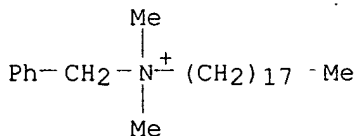
DOCUMENT NUMBER: 133:345903

TITLE: Herbicide formulation adjuvants.

INVENTOR(S): Killick, Robert William; Killick, Andrew Robert;  
 Jones, Peter William; Wrigley, Peter Ronald; Morrison,  
 John David

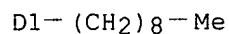
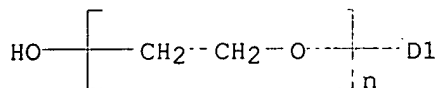
PATENT ASSIGNEE(S): Victorian Chemicals International Pty., Ltd.,  
Australia  
SOURCE: PCT Int. Appl., 33 pp.  
CODEN: PIXXD2.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000067573	A1	20001116	WO 2000-AU416	20000505 <--
<p>W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM</p> <p>RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG</p>				
AU 733300	B2	20010510	AU 2000-42761	20000505 <--
<p>PRIORITY APPLN. INFO.: AU 1999-175 A 19990505</p> <p>WO 2000-AU416 W 20000505</p>				
AB	<p>The title adjuvants comprise: (a) .ltoreq.75 % by wt. lipophilic solvent(s); (b) .ltoreq.50 % by wt. plant nutrient(s) (e.g. ammonium salts of inorg. anions); and (c) .ltoreq.50 % mixt. of cationic emulsifiers, including <b>surfactants</b> which exhibit cationic characteristic in acidic conditions.</p>			
IT	<p>122-19-0, Dimethylstearylbenzylammonium chloride RL: MOA (Modifier or additive use); USES (Uses) (Algene SC 25; herbicide formulation adjuvants contg.)</p>			
RN	122-19-0 HCAPLUS			
CN	Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)			



● Cl<sup>-</sup>

IT 9016-45-9, Ethoxylated nonylphenol  
RL: MOA (Modifier or additive use); USES (Uses)  
(Teric N 2; herbicide formulation adjuvants contg.)  
RN 9016-45-9 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
(CA INDEX NAME)



IT 111-62-6, Ethyl oleate 1338-43-8, Span 80

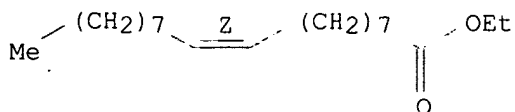
160759-29-5, Hasten

RL: MOA (Modifier or additive use); USES (Uses)  
(herbicide formulation adjuvants contg.)

RN 111-62-6 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, ethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 1338-43-8 HCAPLUS

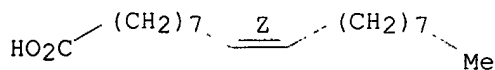
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.

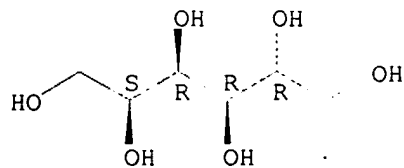


CM 2

CRN 50-70-4

CMF C6 H14 O6

Absolute stereochemistry.



RN 160759-29-5 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, ethyl ester, mixt. with .alpha.-(nonylphenyl)-

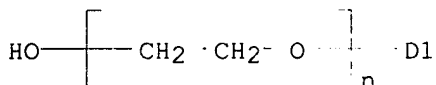
.omega.-hydroxypoly(oxy-1,2-ethanediyl) and .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-[[(9Z)-1-oxo-9-octadecenyl]oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9016-45-9

CMF (C2 H4 O)<sub>n</sub> C15 H24 O

CCI IDS, PMS



D1 - (CH<sub>2</sub>)<sub>8</sub> - Me

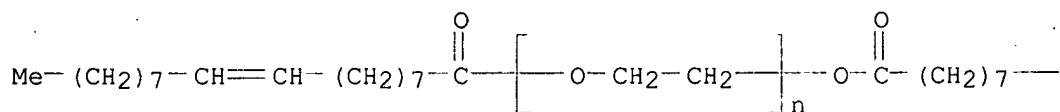
CM 2

CRN 9005-07-6

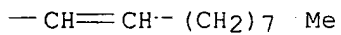
CMF (C2 H4 O)<sub>n</sub> C36 H66 O3

CCI PMS

PAGE 1-A



PAGE 1-B

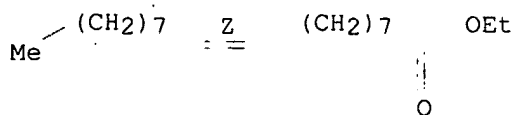


CM 3

CRN 111-62-6

CMF C20 H38 O2

Double bond geometry as shown.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 14 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:772396 HCAPLUS  
 DOCUMENT NUMBER: 133:330917  
 TITLE: Herbicidal compositions enhanced with alkylether and amine **surfactants**  
 INVENTOR(S): Brinker, Ronald J.; Dyszlewski, Andrew D.; Jones, Claude R.; Kramer, Richard M.; Pallas, Norman R.; Radke, Rodney O.; Ward, Anthony J. I.; Gillespie, Jane L.; Xu, Xiaodong C.  
 PATENT ASSIGNEE(S): Monsanto Co., USA  
 SOURCE: PCT Int. Appl., 132 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000064258	A1	20001102	WO 2000-US8907	20000403 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1173059	A1	20020123	EP 2000-928138	20000403 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 2000010656	A	20020213	BR 2000-10656	20000403 <--
JP 2002542267	T2	20021210	JP 2000-613261	20000403
PRIORITY APPLN. INFO.:				
			US 1999-130756P	P 19990423
			WO 2000-US8907	W 20000403

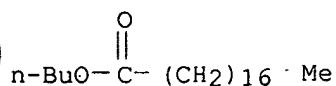
OTHER SOURCE(S): MARPAT 133:330917

AB A method of eliciting biol. activity of an anionic exogenous chem. substance, for example the herbicide glyphosate, is provided. Biological activity of herbicidal compns. contg. an anionic compd. (e.g., glyphosate) dissolved or dispersed in water is enhanced by addn. of (a) an alkylether **surfactant** component consisting of one or more **surfactants** each having the formula:  $R_{12}-O-(CH_2CH_2O)_n((CHR)_{20})_m-R_{13}$  ( $R_{12} = C_{16}-22$  aliph. satd. or unsatd. hydrocarbyl;  $n = 5$  to  $100$ ;  $m = 0$  to  $5$ ; one R in each  $((CHR)_{20})$  group = H, and the other R = Me;  $R_{13} = H$ , C1-4 alkyl or C2-4 acyl), and (b) an amine **surfactant**.

IT 123-95-5, Butyl stearate

RL: MOA (Modifier or additive use); USES (Uses)  
 (emulsifier in glyphosate contg. herbicide compns. enhanced with **surfactants**)

RN 123-95-5 HCAPLUS  
 CN Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)



*fatty acid*  
*Single bond*

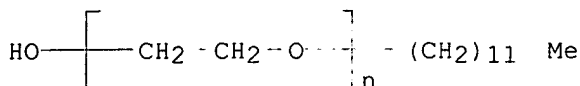
IT 9002-92-0, Laureth-4

*← surfactant*

RL: MOA (Modifier or additive use); USES (Uses)  
(glyphosate contg. herbicide compns. enhanced with)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



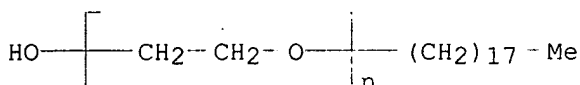
*Surfactants*

IT 9005-00-9, Steareth 5

RL: MOA (Modifier or additive use); USES (Uses)  
(steareth 5; glyphosate contg. herbicide compns. enhanced with)

RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 15 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2000:772395 HCAPLUS

DOCUMENT NUMBER: 133:330916

TITLE: Liquid herbicidal concentrate compositions enhanced with **surfactants**

INVENTOR(S): Brinker, Ronald J.; Dyszlewski, Andrew D.; Jones, Claude R.; Kramer, Richard M.; Pallas, Norman R.; Radke, Rodney O.; Ward, Anthony J. I.; Gillespie, Jane L.; Xu, Xiaodong C.

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3.

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000064257	A1	20001102	WO 2000-US8843	20000403 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-130756P P 19990423

OTHER SOURCE(S): MARPAT 133:330916

AB A liq. conc. herbicidal compn. of an anionic exogenous chem. substance, for example the herbicide glyphosate, is provided. A liq. conc. herbicidal compn. comprises an anionic compd. (e.g. glyphosate) dissolved or dispersed in water, together with (a) an alkylether **surfactant**

consisting of one or more **surfactants** each having the formula  $R_{12}-O-(CH_2CH_2O)_n((CHR)_{20})_m-R_{13}$  ( $R_{12}$  = C16-22 aliph. satd. or unsatd. hydrocarbyl;  $n$  = 5 to 100;  $m$  = 0 to 5; one R in each  $((CHR)_{20})$  group = H, and the other R = Me;  $R_{13}$  = hydrogen, C1-4 alkyl or C2-4 acyl group), (b) an amine **surfactant** component; and (c) an emulsifier comprising acyl phosphatidylcholine and an oil having the formula  $R_4-CO-Q-R_5$  ( $R_4$  = C5-21 hydrocarbyl;  $R_5$  = C1-14 hydrocarbyl;  $Q$  = O or NH).

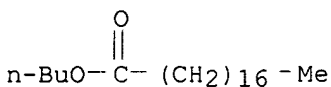
IT 123-95-5, Butyl stearate

RL: MOA (Modifier or additive use); USES (Uses)

(emulsifier in glyphosate contg. herbicide compns. enhanced with **surfactants**).

RN 123-95-5 HCAPLUS

CN Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)



*stearic acid*

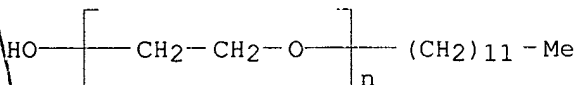
IT 9002-92-0, Laureth-4

RL: MOA (Modifier or additive use); USES (Uses)

(glyphosate contg. herbicide compns. enhanced with)

RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI). (CA INDEX NAME)



*Surfactants*

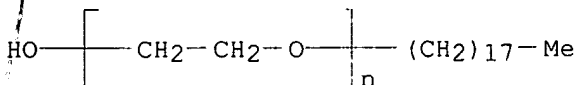
IT 9005-00-9

RL: MOA (Modifier or additive use); USES (Uses)

(steareth; glyphosate contg. herbicide compns. enhanced with)

RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 16 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:633485 HCAPLUS

DOCUMENT NUMBER: 131:253683

TITLE: Insecticidal incense sticks and method for preventing dispersion of insecticidal component

INVENTOR(S): Tateishi, Hideo; Nomura, Yoshiharu; Kanno, Hiromoto

PATENT ASSIGNEE(S): Earth Chemical Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

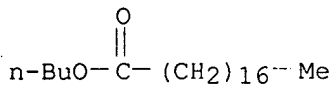
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:



	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 11269008	A2	19991005	JP 1998-75840	19980324 <--
PRIORITY APPLN. INFO.:				JP 1998-75840	19980324
AB	Insecticidal incense sticks with improved persistence contain a component of low volatility at normal temp. to prevent the migration of the insecticidal component from the surface-treated base material. Thus, n-paraffin soln. contg. 27.3 mg allethrin and 91 mg piperonyl butoxide (dispersion inhibitor) was dripped onto base material and the test piece was left to stand at 60.degree. for 2 days. The persistence of allethrin was 94.3% for the resulting incense stick, in comparison with 75.4% for a comparable incense stick made without the dispersion inhibitor.				
IT	123-95-5, Butyl stearate 1338-43-8, Sorbitan, monooleate RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses) (dispersion inhibitor; insecticidal incense sticks and method for preventing dispersion of insecticidal component)				
RN	123-95-5 HCAPLUS				
CN	Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)				

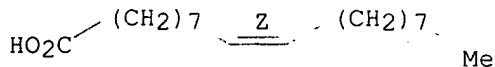


RN 1338-43-8 HCAPLUS  
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1  
CMF C18 H34 O2

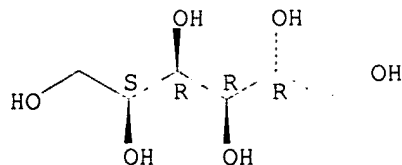
Double bond geometry as shown.



CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.



L37 ANSWER 17 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:603426 HCAPLUS  
DOCUMENT NUMBER: 131:210406  
TITLE: Storage-stable pesticide suspensions containing surfactants and manufacture

INVENTOR(S): thereof  
 PATENT ASSIGNEE(S): Maegawa, Yuichi; Tanaka, Nobuyuki  
 SOURCE: Nippon Soda Co., Ltd., Japan  
 Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11255602	A2	19990921	JP 1998-73092	19980309 <--
PRIORITY APPLN. INFO.:			JP 1998-73092	19980309

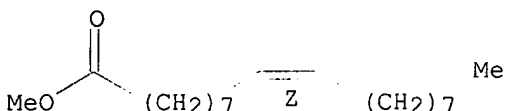
AB The suspensions, which can be dild. with either H2O or nonaq. solvents, are manufd. by adding **pesticides** to mixts. of sorbitan fatty acid ester or sucrose fatty acid ester **surfactants**, nonionic **surfactants** (HLB 8-15), and nonaq. solvents incompatible with H2O and uniformly blending the mixts. Stanohl LP 35 (paraffin oil), Newcol 80 (sorbitan monooleate, HLB 6.4), and Newcol 1210 (polyoxyethylene oleyl ether, HLB 12.4) were uniformly mixed, homogenized with thiophanate-Me powder and Benton 34 (bentonite), and pulverized to give a storage-stable fungicide suspension.

IT 112-62-9, Methyl oleate  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (ADJ 100; storage-stable **pesticide** suspensions contg. nonionic **surfactants** for diln. with H2O or nonaq. solvents)

RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 1338-43-8, Newcol 80 9002-92-0, Newcol 1100  
 9004-98-2, Newcol 1210 9016-45-9, Newcol 564  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); PRP (Properties); BIOL (Biological study); USES (Uses)  
 (storage-stable **pesticide** suspensions contg. nonionic **surfactants** for diln. with H2O or nonaq. solvents)

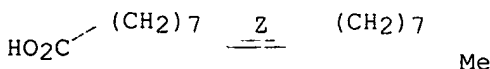
RN 1338-43-8 HCAPLUS

CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1  
 CMF C18 H34 O2

Double bond geometry as shown.

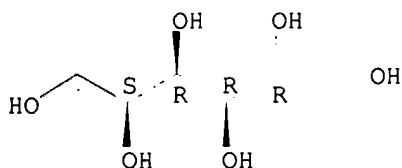


CM 2

CRN 50-70-4

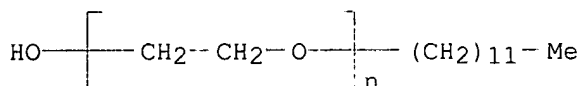
CMF C6 H14 O6

Absolute stereochemistry.



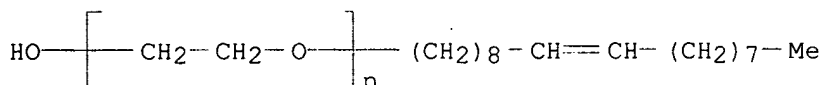
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



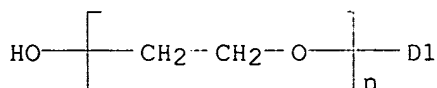
RN 9004-98-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



D1--(CH2)8 Me

L37 ANSWER 18 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1999:81550 HCAPLUS

DOCUMENT NUMBER: 130:149873

TITLE: Adjuvants for **pesticide** formulations

INVENTOR(S): Mueninghoff, Jane C.; Garst, Roger H.

PATENT ASSIGNEE(S): Henkel Corporation, USA

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

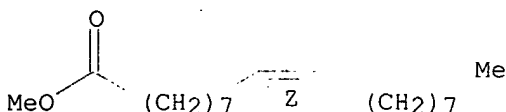
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

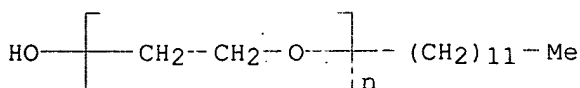
## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9903343	A1	19990128	WO 1998-US14185	19980713 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6068849	A	20000530	US 1997-892593	19970714 <--
ZA 9806218	A	19990202	ZA 1998-6218	19980713 <--
AU 9883885	A1	19990210	AU 1998-83885	19980713 <--
AU 740063	B2	20011025		
EP 1018870	A1	20000719	EP 1998-934342	19980713 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9811277	A	20000829	BR 1998-11277	19980713 <--
JP 2001510142	T2	20010731	JP 2000-502664	19980713 <--
NZ 502414	A	20020201	NZ 1998-502414	19980713 <--
MX 200000488	A	20001109	MX 2000-488	20000113 <--
PRIORITY APPLN. INFO.:				
US 1997-892593 A 19970714 WO 1998-US14185 W 19980713				
AB	The adjuvant contains: (a) a C6-22 fatty acid Me ester ethoxylate having from 1 to 200 mol ethylene oxide; and (b) a component selected from nonionic <b>surfactants</b> , anionic <b>surfactants</b> , cationic <b>surfactants</b> , alkyl esters, phyto bland mineral oils, water-sol. silicone <b>surfactants</b> , fatty acid dialkyl ethers, fatty acid dialkyl carbonates and/or vegetable oils.			
IT	112-62-9, Methyl oleate 9002-92-0 RL: MOA (Modifier or additive use); USES (Uses) (adjuvants for <b>pesticide</b> formulations contg.)			
RN	112-62-9 HCAPLUS			
CN	9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)			

Double bond geometry as shown.



RN 9002-92-0 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 19 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1999:78439 HCAPLUS  
DOCUMENT NUMBER: 130:193107  
TITLE: Agrochemical insecticidal and microbicidal agents and

their compositions containing medium-chain triglycerides

INVENTOR(S): Nishimuta, Koichi; Nomura, Mitsuyuki; Ino, Masaaki; Hongo, Tomoaki; Maehata, Ryuichi

PATENT ASSIGNEE(S): Sankei Chemicals Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11029411	A2	19990202	JP 1997-200947	19970710 <--
PRIORITY APPLN. INFO.:			JP 1997-200947	19970710

AB Title compns. contain C8-10 fatty acid triglycerides and **surfactants** chosen from fatty acid esters, polyoxyethylene fatty acid esters, and **polyoxyethylene nonylphenyl** ether. The compns. show broad-spectrum **pesticidal** effect, low toxicity, and harmless to crops. O. D. O (75:25 caprylic acid triglyceride-capric acid triglyceride mixt.) 90, Excel 300 (**surfactant**) 2, Emasol O 10F (**surfactant**) 1, Emanon 411 (**surfactant**) 2, Emulgen 905 (**surfactant**) 3, and H2O 2 parts were mixed to give an emulsion, which was 200-fold dild. and applied to cucumber to show 97.0% control of Sphaerotheca fuliginea with no damage on cucumber.

IT 1338-43-8, Emasol O 10F 9004-96-0, Emanon 4110 9016-45-9, Emulgen 905

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (**surfactant**; agrochem. insecticidal and microbicidal agents contg. medium-chain triglycerides and **surfactants**)

RN 1338-43-8 HCAPLUS

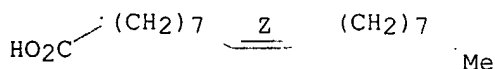
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM. 1

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.

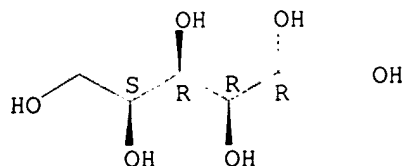


CM 2

CRN 50-70-4

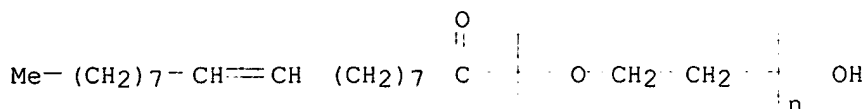
CMF C6 H14 O6

Absolute stereochemistry.



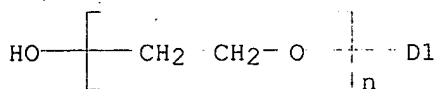
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
(CA INDEX NAME)



D1-(CH<sub>2</sub>)<sub>8</sub>-Me

L37 ANSWER 20 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:526984 HCAPLUS

DOCUMENT NUMBER: 129:166212

TITLE: Solid lipid particles, particles of bioactive agents and methods for the manufacture and use thereof

INVENTOR(S): Westesen, Kirsten; Siekmann, Britta

PATENT ASSIGNEE(S): Pharmacia and Upjohn AB, Swed.

SOURCE: U.S., 32 pp., Cont.-in-part of U.S. Ser. No. 141,058, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5785976	A	19980728	US 1994-226471	19940412 <--
CA 2091152	AA	19940906	CA 1993-2091152	19930305 <--
US 5885486	A	19990323	US 1996-757276	19961202 <--
US 6207178	B1	20010327	US 1998-204075	19981203 <--

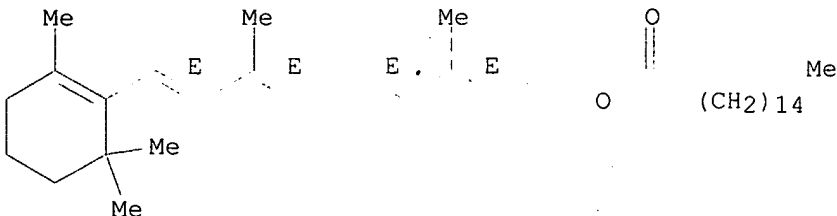
PRIORITY APPLN. INFO.: CA 1993-2091152 A 19930305  
US 1993-27501 B2 19930305  
US 1993-141058 B2 19931026  
US 1994-226471 A1 19940412  
US 1996-757276 A1 19961202

AB The present invention is in the area of administration forms and delivery systems for drugs, vaccines and other biol. active agents. More specifically the invention is related to the prepn. of suspensions of colloidal solid lipid particles (SLPs) of predominantly an isometrical shape with the lipid matrix being in a stable polymorphic modification and of suspensions of micron and submicron particles of bioactive agents (PBAs); as well as to the use of such suspensions or the lyophilizates

thereof as delivery systems primarily for the parenteral administration of preferably poorly water-sol. bioactive substances, particularly drugs, and to their use in cosmetic, food and agricultural products. SLPs and PBAs are prepd. by the following emulsification process: (1) a solid lipid or bioactive agent or a mixt. of solid lipids or bioactive agents is melted; (2) stabilizers are added either to the lipid or bioactive agent and to the aq. phase or to the aq. phase only depending on their physicochem. characteristics; (3) drugs or other bioactive substances to be incorporated into the SLPs may be melted together with the lipids if the physicochem. characteristics of the substance permit or may be dissolved, solubilized or dispersed in the lipid melt before homogenization; (4) the aq. phase is heated to the temp. of the melt before mixing and may contain for example stabilizers, isotonicity agents, buffering substances, cryoprotectants and/or preservatives; (5) the molten lipid compds. and the bioactive agents are emulsified in an aq. phase preferably by high-pressure homogenization. For example, soybean lecithin was dispersed into a melted tripalmitin and estramustine was dissolved in the dispersion. An aq. mixt. contg. Na glycocholate and glycerol in water was added to the above dispersion to obtain a crude emulsion, which was passed through a high-pressure homogenizer to obtain a stable dispersion.

IT 79-81-2, Retinol palmitate 151-21-3, biological studies  
 106392-12-5, Ethylene oxide-propylene oxide block copolymer  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (manuf. of solid lipid particles for controlled delivery of poorly water-sol. bioactive agents)  
 RN 79-81-2 HCAPLUS  
 CN Retinol, hexadecanoate (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 151-21-3 HCAPLUS  
 CN Sulfuric acid monododecyl ester sodium salt (8CI, 9CI) (CA INDEX NAME)

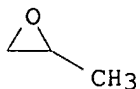
HO<sub>3</sub>SO- (CH<sub>2</sub>)<sub>11</sub>-Me

● Na

RN 106392-12-5 HCAPLUS  
 CN Oxirane, methyl-, polymer with oxirane, block (9CI) (CA INDEX NAME)

CM 1

CRN 75-56-9  
 CMF C3 H6 O



CM 2

CRN 75-21-8  
CMF C2 H4 O



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 21 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1998:459915 HCAPLUS  
DOCUMENT NUMBER: 129:64306  
TITLE: Herbicide, crop desiccant and defoliant adjuvant  
INVENTOR(S): Killick, Robert William; Wrigley, Peter Ronald; Jones, Peter William; Schulteis, David Thomas  
PATENT ASSIGNEE(S): Victorian Chemical International Pty Ltd, Australia; Wilbur-Ellis Company  
SOURCE: Pat. Specif. (Petty) (Aust.), 19 pp.  
CODEN: AUXXD  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 686552	B3	19980205	AU 1997-36062	19970828 <--
AU 9736062	A1	19971106		

PRIORITY APPLN. INFO.: AU 1997-36062 19970828

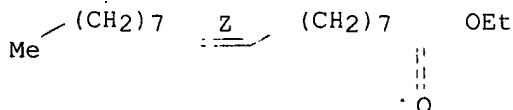
AB An adjuvant compn. for use with a herbicide, crop desiccant or defoliant includes Et ester(s) of fatty acids having a level of unsatn.  $\geq 40\%$  and nonionic emulsifier(s). No other type of emulsifier is present.

IT 111-62-6, Ethyl oleate 112-62-9, MEthyl oleate  
9016-45-9, Nonylphenol ethoxylate  
RL: MOA (Modifier or additive use); USES (Uses)  
(herbicide, crop desiccant and defoliant adjuvant compn. contg.)

RN 111-62-6 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, ethyl ester (9CI) (CA INDEX NAME)

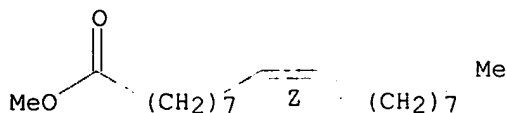
Double bond geometry as shown.



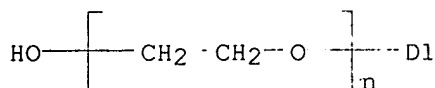
RN 112-62-9 HCAPLUS  
CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.





RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



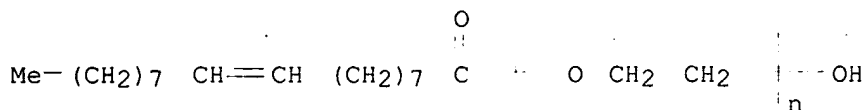
D1-(CH<sub>2</sub>)<sub>8</sub> Me

L37 ANSWER 22 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:372034 HCAPLUS  
 DOCUMENT NUMBER: 129:77905  
 TITLE: Some aspects concerning the criteria of selection of emulsifiers for obtaining agrochemical emulsions  
 AUTHOR(S): Piscureanu, A.; Firoiu, E.  
 CORPORATE SOURCE: Chemical Res. Inst., Bucharest, Rom.  
 SOURCE: Comunicaciones presentadas a las Jornadas del Comité Español de la Detergencia (1998), 28, 325-335  
 CODEN: CJCD7; ISSN: 0212-7466  
 PUBLISHER: Comité Español de la Detergencia, Tensioactivos y Afines  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

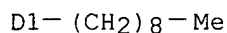
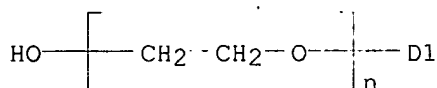
AB We present the results concerning the establishing of selection criteria for emulsifiers used in obtaining the emulsifiable concs. of **pesticides**, which added to water, give O:W emulsions. Our researches were based on mixts. of anionic emulsifier of Calcium Dodecylbenzenesulfonates type and different nonionic emulsifier with etheric and estheric structure. The established criteria area: - the detn. EIP parameter of **pesticide** systems for selecting the nonionic emulsifier; - the establishing of the optimal concn. of emulsifiers by measuring the interfacial tension at interface **pesticide**: water.

IT 9004-96-0, Ethoxylated oleic acid 9016-45-9, Tensioactiv  
 NF 6  
 RL: AGR (Agricultural use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)  
 (emulsifiers for obtaining agrochem. emulsions)

RN 9004-96-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



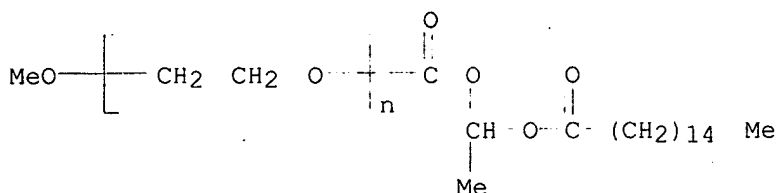
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 23 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:364928 HCAPLUS  
 DOCUMENT NUMBER: 129:42607  
 TITLE: Polyoxyethylene fatty acid ester **surfactants**  
 and use thereof  
 INVENTOR(S): Strande, Per; Dugstad, Harald; Balinov, Balin;  
 Alfheim, Jan; Arukwe, Joseph  
 PATENT ASSIGNEE(S): Nycomed Imaging A/S, Norway  
 SOURCE: Eur. Pat. Appl., 6 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 844016	A2	19980527	EP 1997-309505	19971125 <--
EP 844016	A3	19981118		
EP 844016	B1	20010926		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 5962626	A	19991005	US 1997-977630	19971125 <--
AT 206065	E	20011015	AT 1997-309505	19971125 <--

PRIORITY APPLN. INFO.: GB 1996-24548 A 19961125

AB The present invention provides a polyethylene glycol ester **surfactant** comprising at least one polyethylene glycol moiety and at least one fatty acyl moiety characterized in that said moieties are linked by a linkage incorporating a biodegradable CO<sub>2</sub>CR<sub>1</sub>R<sub>2</sub>OCO unit (R<sub>1</sub>, R<sub>2</sub> = H or monovalent org. group attached through a C atom or R<sub>1</sub>R<sub>2</sub> = divalent org. group attached through C atoms). Thus, stirring THF contg. chloromethyl chloroformate 44, PEG monomethyl ether 22, and C<sub>5</sub>H<sub>5</sub>N 44 mmol 3 h, and stirring a mixt. contg. the 1.55 mmol palmitic acid, 2 mmol Cs<sub>2</sub>CO<sub>3</sub>, 13 mL DMF, and 1.55 mmol resulting intermediate 24 h gave



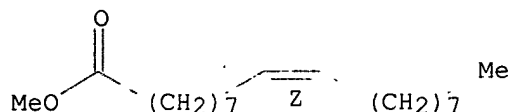
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 839448	A1	19980506	EP 1997-118942	19971030 <--
EP 839448	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 10130103	A2	19980519	JP 1996-291979	19961101 <--
ZA 9709766	A	19980608	ZA 1997-9766	19971030 <--
US 6296864	B1	20011002	US 1997-961499	19971030 <--
AT 239368	E	20030515	AT 1997-118942	19971030
BR 9705210	A	19991005	BR 1997-5210	19971031 <--
PRIORITY APPLN. INFO.:			JP 1996-291979	A 19961101

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IT      112-62-9, Methyl oleate
        RL: MOA (Modifier or additive use); USES (Uses)
            (stable nonirritant insecticidal emulsion conc. contg.)
RN      112-62-9  HCAPLUS
CN      9-Octadecenoic acid (9Z)-, methyl ester (9CI)  (CA INDEX NAME)

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Page 37



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 25 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:268305 HCAPLUS

DOCUMENT NUMBER: 128:318349

TITLE: Formulation of plant pesticides, especially herbicides

INVENTOR(S): Ward, Anthony J. I.; Ge, Jisheng; Gillespie, Jane L.; Sandbrink, Joseph J.; Xu, Xiaodong C.

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 365 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

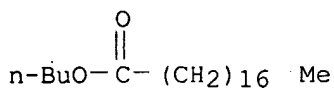
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817113	A1	19980430	WO 1997-US19589	19971024 <--
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9709569	A	19980512	ZA 1997-9569	19971024 <--
AU 9750039	A1	19980515	AU 1997-50039	19971024 <--
AU 755024	B2	20021128		
ZA 9709564	A	19980520	ZA 1997-9564	19971024 <--
ZA 9709570	A	19980521	ZA 1997-9570	19971024 <--
ZA 9709561	A	19980527	ZA 1997-9561	19971024 <--
ZA 9709563	A	19980603	ZA 1997-9563	19971024 <--
ZA 9709567	A	19980603	ZA 1997-9567	19971024 <--
EP 936859	A1	19990825	EP 1997-912982	19971024 <--
EP 936859	B1	20020828		
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CN 1241902	A	20000119	CN 1997-180966	19971024 <--
CN 1241903	A	20000119	CN 1997-180976	19971024 <--
CN 1241904	A	20000119	CN 1997-181014	19971024 <--
CN 1241905	A	20000119	CN 1997-181038	19971024 <--
US 6093680	A	20000725	US 1997-957764	19971024 <--
US 6093681	A	20000725	US 1997-958149	19971024 <--
BR 9713324	A	20001024	BR 1997-13324	19971024 <--
JP 2001501966	T2	20010213	JP 1998-519737	19971024 <--
NZ 335593	A	20010629	NZ 1997-335593	19971024 <--
EP 1138202	A2	20011004	EP 2001-116176	19971024 <--
EP 1138202	A3	20030102		
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AT 222694	E	20020915	AT 1997-912982	19971024
ES 2182048	T3	20030301	ES 1997-912982	19971024

ES 2184138	T3	20030401	ES 1997-946309	19971024
WO 9833384	A1	19980806	WO 1998-US1684	19980130 <--
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WO 9833385	A1	19980806	WO 1998-US1841	19980130 <--
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
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AU 9860484	A1	19980825	AU 1998-60484	19980130 <--
AU 724299	B2	20000914		
AU 9862582	A1	19980825	AU 1998-62582	19980130 <--
AU 730047	B2	20010222		
US 6020287	A	20000201	US 1998-16773	19980130 <--
EP 975224	A1	20000202	EP 1998-904789	19980130 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
EP 979035	A1	20000216	EP 1998-903811	19980130 <--
EP 979035	B1	20021204		
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US 6172004	B1	20010109	US 1998-16101	19980130 <--
NZ 337000	A	20010126	NZ 1998-337000	19980130 <--
NZ 336999	A	20011026	NZ 1998-336999	19980130 <--
AT 228765	E	20021215	AT 1998-903811	19980130
TW 440428	B	20010616	TW 1998-87101117	19980218 <--
US 6479434	B1	20021112	US 2000-493446	20000128
US 6407042	B1	20020618	US 2000-534560	20000324
US 6475953	B1	20021105	US 2000-534772	20000324
PRIORITY APPLN. INFO.:			US 1996-29317P	P 19961025
			US 1997-34887P	P 19970131
			US 1997-39789P	P 19970304
			EP 1997-912922	A3 19971024
			US 1997-957764	A1 19971024
			US 1997-958149	A3 19971024
			WO 1997-US19589	W 19971024
			WO 1998-US1684	W 19980130
			WO 1998-US1841	W 19980130
AB	A compn. is disclosed for application to a plant that comprises an exogenous chem. (for example, a postemergent herbicide), an aq. diluent, and a first excipient, that is amphiphilic. The wt./wt. ratio of the first excipient substance to the exogenous chem. is between about 1:3 and about 1:100. A second quaternary ammonium excipient might also be present. The aq. compn. forms anisotropic aggregates on a wax layer, and the presence of the anisotropic aggregates can be detected by a test which is described. The compns., when applied to plants, provide enhanced biol. activity per unit amt. of exogenous chem., as compared to otherwise similar compns. contg. <b>surfactants</b> that do not form anisotropic aggregates. This enhanced biol. activity results from the formation or enlargement of hydrophilic channels through the epicuticular wax of the plant.			
IT	123-95-5, Butyl stearate 9002-92-0, Laureth-23 9004-98-2, Oleth 10 9005-00-9, Steareth 10			

RL: MOA (Modifier or additive use); USES (Uses)  
(excipient in **pesticide** formulationss)

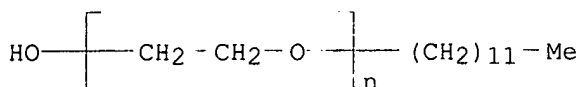
RN 123-95-5 HCAPLUS

CN Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)



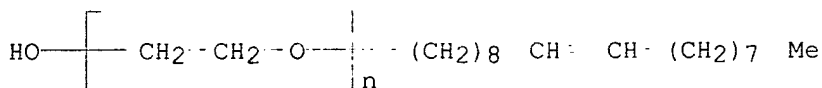
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



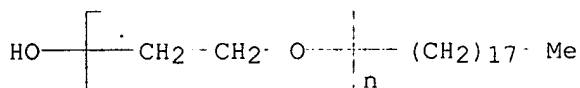
RN 9004-98-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 26 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:268303 HCAPLUS

DOCUMENT NUMBER: 128:305146

TITLE: Formulation of **pesticides**, especially herbicides

INVENTOR(S): Gillespie, Jane L.; Brinker, Ronald J.; Ward, Anthony J. I.; Xu, Xiaodong C.

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 211 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817111	A1	19980430	WO 1997-US19361	19971024 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				

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KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,  
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,  
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,  
GN, ML, MR, NE, SN, TD, TG

ZA 9709569 A 19980512 ZA 1997-9569 19971024 <--  
AU 9851506 A1 19980515 AU 1998-51506 19971024 <--  
AU 743648 B2 20020131  
ZA 9709564 A 19980520 ZA 1997-9564 19971024 <--  
ZA 9709570 A 19980521 ZA 1997-9570 19971024 <--  
ZA 9709561 A 19980527 ZA 1997-9561 19971024 <--  
ZA 9709563 A 19980603 ZA 1997-9563 19971024 <--  
ZA 9709567 A 19980603 ZA 1997-9567 19971024 <--  
EP 941029 A1 19990915 EP 1997-946309 19971024 <--  
EP 941029 B1 20020918

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

CN 1241114 A 20000112 CN 1997-180832 19971024 <--  
CN 1241902 A 20000119 CN 1997-180966 19971024 <--  
CN 1241903 A 20000119 CN 1997-180976 19971024 <--  
CN 1241904 A 20000119 CN 1997-181014 19971024 <--  
CN 1241905 A 20000119 CN 1997-181038 19971024 <--  
US 6093680 A 20000725 US 1997-957764 19971024 <--  
US 6093681 A 20000725 US 1997-958149 19971024 <--  
NZ 335591 A 20000825 NZ 1997-335591 19971024 <--  
BR 9712680 A 20001024 BR 1997-12680 19971024 <--  
JP 2001500524 T2 20010116 JP 1998-519676 19971024 <--  
EP 1138202 A2 20011004 EP 2001-116176 19971024 <--  
EP 1138202 A3 20030102

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO

AT 224138 E 20021015 AT 1997-946309 19971024  
ES 2182048 T3 20030301 ES 1997-912982 19971024  
ES 2184138 T3 20030401 ES 1997-946309 19971024  
WO 9833384 A1 19980806 WO 1998-US1684 19980130 <--

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,  
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KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,  
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,  
UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
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FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,  
GA, GN, ML, MR, NE, SN, TD, TG

WO 9833385 A1 19980806 WO 1998-US1841 19980130 <--

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FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM,  
GA, GN, ML, MR, NE, SN, TD, TG

AU 9860484 A1 19980825 AU 1998-60484 19980130 <--  
AU 724299 B2 20000914  
AU 9862582 A1 19980825 AU 1998-62582 19980130 <--  
AU 730047 B2 20010222  
US 6020287 A 20000201 US 1998-16773 19980130 <--  
EP 975224 A1 20000202 EP 1998-904789 19980130 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, FI

EP 979035 A1 20000216 EP 1998-903811 19980130 <--

EP 979035 B1 20021204

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

US 6172004	B1	20010109	US 1998-16101.	19980130	<--
NZ 337000	A	20010126	NZ 1998-337000	19980130	<--
NZ 336999	A	20011026	NZ 1998-336999	19980130	<--
AT 228765	E	20021215	AT 1998-903811	19980130	
TW 440428	B	20010616	TW 1998-87101117	19980218	<--
US 6479434	B1	20021112	US 2000-493446	20000128	
US 6407042	B1	20020618	US 2000-534560	20000324	
US 6475953	B1	20021105	US 2000-534772	20000324	

PRIORITY APPLN. INFO.:

US 1996-29317P	P	19961025
US 1997-34887P	P	19970131
US 1997-39789P	P	19970304
EP 1997-912922	A3	19971024
US 1997-957764	A1	19971024
US 1997-958149	A3	19971024
WO 1997-US19361	W	19971024
WO 1998-US1684	W	19980130
WO 1998-US1841	W	19980130

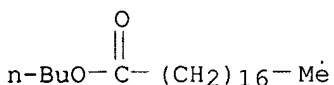
OTHER SOURCE(S): MARPAT 128:305146

AB A plant treatment compn. is given, that comprises: (a) a **pesticide**, preferably a herbicide; (b) a first excipient RCOAR1 (R = C5-21 hydrocarbyl; R1 = C1-14 hydrocarbyl; A = O or NH); and (c) a second excipient, which is an amphiphilic substance having a crit. packing parameter >1/3.

IT 123-95-5, Butyl stearate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (excipient in **pesticide** formulations)

RN 123-95-5 HCAPLUS

CN Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)

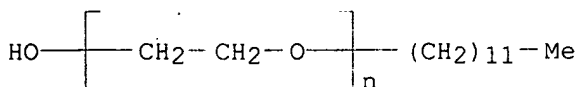


IT 9002-92-0, Laureth-23 9004-98-2, Oleth 2  
 9005-00-9, Steareth 10

RL: MOA (Modifier or additive use); USES (Uses)  
 (formulation of **pesticides**, esp. herbicides.)

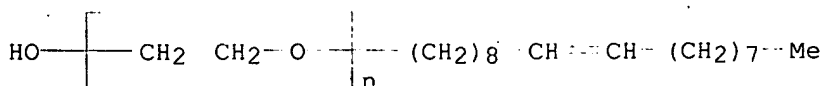
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9004-98-2 HCAPLUS

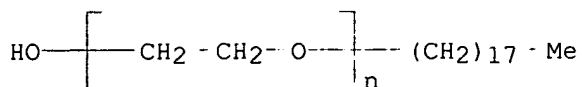
CN Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9005-00-9 HCAPLUS



CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 27 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:108051 HCAPLUS

DOCUMENT NUMBER: 128:163959

TITLE: Storage-stable insecticides containing a chrysanthemate ester and their aerosol compositions  
Tanaka, Yasutoshi; Matsunaga, Tadakatsu

INVENTOR(S): Sumitomo Chemical Co., Ltd., Japan

PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 4 pp.

SOURCE: CODEN: JKXXAF

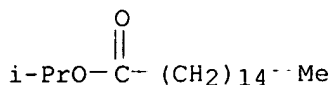
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

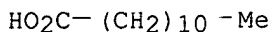
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10045513	A2	19980217	JP 1996-208464	19960807 <--
AU 9728711	A1	19980212	AU 1997-28711	19970718 <--
AU 711718	B2	19991021		
CA 2211153	AA	19980207	CA 1997-2211153	19970723 <--
US 5872143	A	19990216	US 1997-907089	19970806 <--
RU 2183403	C2	20020620	RU 1997-113515	19970806
CN 1172584	A	19980211	CN 1997-117306	19970807 <--
CN 1102339	B	20030305		
EP 823213	A1	19980211	EP 1997-113693	19970807 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9704287	A	19981229	BR 1997-4287	19970807 <--
PRIORITY APPLN. INFO.:			JP 1996-208464	A 19960807
AB	Insecticides contain (A) 2,4-dioxo-1-(2-propynyl)imidazolidin-3-yl chrysanthemate 0.1-10, (B) C16-19 fatty acid esters 5-50, (C) sorbitan fatty acid esters 5-30, (D) alcs. selected from EtOH, 1-propanol, 2-propanol, ethylene glycol, diethylene glycol, triethylene glycol, propylene glycol, dipropylene glycol, butylene glycol, and glycerin 0.5-1, and (E) C10-18 linear satd. hydrocarbons 40-89.4 wt.%. The aerosols contain the insecticidal compns. 5-30, water 40-85, and propellants 10-50 wt.%. A compn. contg. imiprothrin 1.6, iso-Pr myristate 20, Rheodol SP-L 10 (sorbitan monolaurate) 6, propylene glycol 0.5, and Norpar 15 (C14-18 linear satd. hydrocarbon) 71.9 wt.% did not show pptn. after 1-day storage at room temp.			
IT	142-91-6, Isopropyl palmitate 1338-39-2, Rheodol SP-L 10 RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses) (storage-stable insecticides contg. a chrysanthemate ester and their aerosol compns.)			
RN	142-91-6 HCAPLUS			
CN	Hexadecanoic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)			



RN 1338-39-2 HCAPLUS  
CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

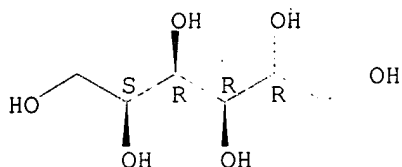
CRN 143-07-7  
CMF C12 H24 O2



CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.



L37 ANSWER 28 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1998:35392 HCAPLUS  
DOCUMENT NUMBER: 128:98904  
TITLE: Fatty acid derivatives as co-formulants for herbicides  
AUTHOR(S): Langlois, P.; Gauvrit, C.; Mouloungui, Z.; Darchy, F.  
CORPORATE SOURCE: Lab. de Phytopharmacie, INRA, Dijon, F-21034, Fr.  
SOURCE: Brighton Crop Protection Conference--Weeds (1997), (Vol. 1), 391-398  
CODEN: BCPWE2; ISSN: 0955-1514  
PUBLISHER: British Crop Protection Council  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Fatty acid derivs. were assessed as co-formulants for herbicides. The series studied were N-propylene amides of C10- 18 fatty acids; ethers of oleic and stearic acids; tetraoxyethylene esters of oleic and undecylenic acids; 1-glyceryl esters of heptanoic, undecylenic, oleic, linoleic and erucic acids. The ethers enhanced the foliar penetration of phenmedipham but the amides had a low or nil influence. In the tetraoxyethylene and 1-glyceryl series, the most lipophilic derivs. promoted the foliar penetration of phenmedipham to the greatest extent. This was particularly clear-cut for monoglycerides. In the latter case, the requirement for lipophilicity was less stringent for 2,4-D. Tetraoxyethylene undecylenate and glyceryl undecylenate exhibited **surfactant** properties in both static and dynamic tests. Biol. assays were done with quizalofop-P-Et formulated with Me oleate and tetraoxyethylene undecylenate and showed that the biol. efficacy of the latter formulation could compare with a com. formulation.  
IT 111-03-5 112-62-9, Methyl oleate 2277-28-3

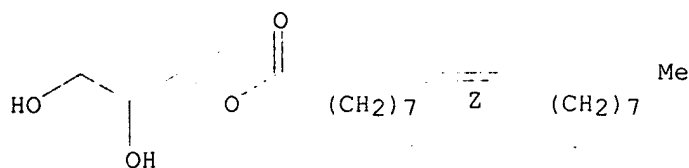
5389-95-7

RL: MOA (Modifier or additive use); USES (Uses)  
(fatty acid derivs. as herbicide formulation adjuvants)

RN 111-03-5 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

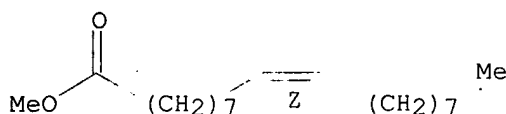
Double bond geometry as shown.



RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

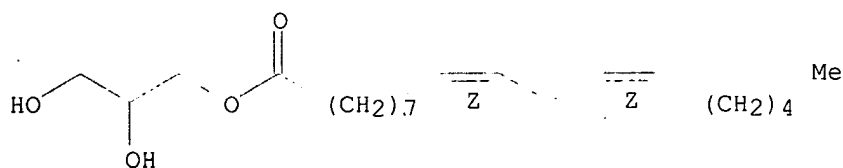
Double bond geometry as shown.



RN 2277-28-3 HCAPLUS

CN 9,12-Octadecadienoic acid (9Z,12Z)-, 2,3-dihydroxypropyl ester (9CI) (CA INDEX NAME)

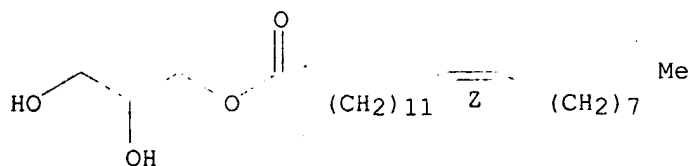
Double bond geometry as shown.



RN 5389-95-7 HCAPLUS

CN 13-Docosenoic acid, 2,3-dihydroxypropyl ester, (13Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L37 ANSWER 29 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:532193 HCAPLUS

DOCUMENT NUMBER: 127:157965

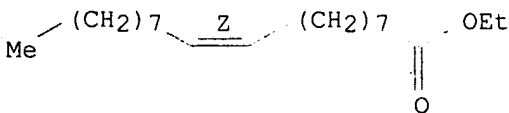
TITLE: Packaged agrochemical composition

INVENTOR(S): Shaunak, Richa; Holmes, Peter; Landham, Rowena  
Roshanthi; Sohm, Rupert Heinrich

PATENT ASSIGNEE(S): Zeneca Ltd., UK; Shaunak, Richa; Holmes, Peter;  
 Landham, Rowena Roshanthi; Sohm, Rupert Heinrich  
 SOURCE: PCT Int. Appl., 19 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

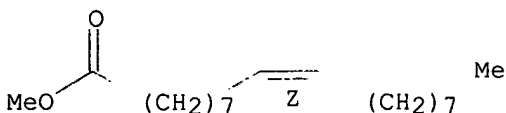
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9727743	A1	19970807	WO 1997-GB1	19970103 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9713851	A1	19970822	AU 1997-13851	19970103 <--
EP 880316	A1	19981202	EP 1997-900255	19970103 <--
EP 880316	B1	20030212		
R: DE, ES, FR, GB, GR, IT, PT				
JP 2000504005	T2	20000404	JP 1997-527386	19970103 <--
TW 414688	B	20001211	TW 1997-86100044	19970104 <--
US 6204223	B1	20010320	US 1998-91764	19980619 <--
PRIORITY APPLN. INFO.:				
			GB 1996-1793	A 19960130
			GB 1996-15540	A 19960724
			WO 1997-GB1	W 19970103
AB	An agrochem. compn. is packaged in a water-sol. or water-dispersible sachet. The agrochem. compn. comprises a water-sol., agrochem.-active ingredient, water and a permeation inhibitor to minimize water loss through the walls of the sachet, such as Crodamol CAP, Et oleate, Nansa HS90S, Priolube 1403, Emery 2231, Emery 2230 and Crodamol DOA.			
IT	111-62-6, Ethyl oleate 112-62-9, Methyl oleate 25155-30-0, Sodium dodecylbenzenesulfonate			
	RL: MOA (Modifier or additive use); USES (Uses) (permeation inhibitor in agrochem. compn. packaged in water-sol. or water-dispersible sachets)			
RN	111-62-6 HCAPLUS			
CN	9-Octadecenoic acid (9Z)-, ethyl ester (9CI) (CA INDEX NAME)			

Double bond geometry as shown.



RN 112-62-9 HCAPLUS  
 CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 25155-30-0 HCAPLUS

CN Benzenesulfonic acid, dodecyl-, sodium salt (8CI, 9CI) (CA INDEX NAME)

D1-SO<sub>3</sub>HMe-(CH<sub>2</sub>)<sub>11</sub>-D1

Na

L37 ANSWER 30 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1997:207739 HCAPLUS

DOCUMENT NUMBER: 126:196426

TITLE: Adjuvant for sprayable mixes of herbicides and insecticides

INVENTOR(S): Bodulovic, Zeljko

PATENT ASSIGNEE(S): Monsanto Australia Limited, Australia

SOURCE: Pat. Specif. (Aust.), 61 pp.

CODEN: ALXXAP

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
AU 674100	B2	19961205	AU 1994-77424	19941025 <--
AU 9477424	A1	19950511		
AU 9477400	A1	19950511	AU 1994-77400	19941024 <--

PRIORITY APPLN. INFO.: AU 1993-1974 19931025

AB The invention provides spray-assisting/spray compatibility-assisting, adjuvant compns. in conc.-form, suitable for prepg. sprayable mixes of herbicide and insecticide formulations, comprising triacylglycerols-based vegetable oil(s) together with: (i) a nonionic ethylene oxide condensate of alc. or fatty alc. **surfactant**; and/or (ii) a nonionic ethylene oxide ester of fatty acid emulsifier/antistatic agent. Thus, Roundup was formulated with canola oil and Teric OF 6. The conc.-form adjuvant compns. avoid the comparatively larger amts. of **surfactants** commonly used in prepg. sprayable mixes or herbicide and insecticide formulations. They are suitable for prepg. sprayable mixes of incompatible formulations of herbicides and insecticides, which present a problem with respect to sludge formation that causes blockage of the spray-nozzles of spraying equipment, when field-use sprayable mixes are prepd. from incompatible formulations of such agents. The invention also provides sprayable mixes or formulations of insecticides and herbicides contg. the conc.-form adjuvant compns.

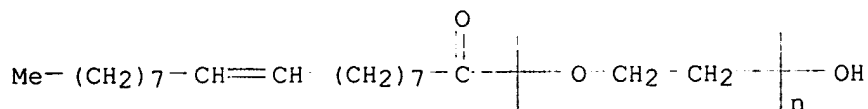
IT 9004-96-0, Teric OF 6 9036-19-5, Teric X 5

RL: MOA (Modifier or additive use); USES (Uses)

(adjuvant for sprayable mixes of herbicides and insecticides)

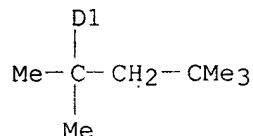
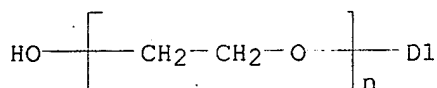
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9036-19-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-  
.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 31 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:452411 HCAPLUS

DOCUMENT NUMBER: 125:135457

TITLE: Adjuvant composition for for enhancing the efficacy of  
**pesticides**

INVENTOR(S): Kurita, Kazuhiko; Hasebe, Keiko; Yamaguchi, Katsuhiko;  
Hayashi, Masaharu; Hioki, Yuichi

PATENT ASSIGNEE(S): Kao Corporation, Japan

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9616539	A1	19960606	WO 1995-JP2382	19951122 <--
W: BR, CN, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 08151302	A2	19960611	JP 1994-291767	19941125 <--
JP 3113161	B2	20001127		
EP 793416	A1	19970910	EP 1995-937167	19951122 <--
EP 793416	B1	19991013		
R: ES, FR				
BR 9509816	A	19970930	BR 1995-9816	19951122 <--
CN 1173110	A	19980211	CN 1995-197339	19951122 <--
CN 1104195	B	20030402		
ES 2139249	T3	20000201	ES 1995-937167	19951122 <--
US 5863909	A	19990126	US 1997-836719	19970522 <--
PRIORITY APPLN. INFO.:			JP 1994-291767	A 19941125

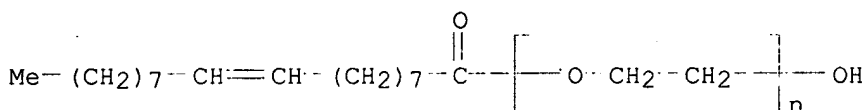
WO 1995-JP2382 W 19951122

AB An adjuvant compn. for agricultural chems. comprises at least one sorbitan/fatty acid ester **surfactant** and at least one **surfactant** selected from resin acid **surfactants** and anionic oligomer or polymer type quaternary ammonium salt **surfactants**. The compn. can be used for crops without causing injury, and can enhance the efficacy of **pesticides**.

IT 9004-96-0, Polyoxyethylene monooleate  
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
 (mixt. contg.; synergistic **pesticide**-adjuvant compn.)

RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 32 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:123902 HCAPLUS

DOCUMENT NUMBER: 124:168295

TITLE: Novel emulsifiable concentrates containing one or more **pesticides**.

INVENTOR(S): Henriet, Michel; Taranta, Claude

PATENT ASSIGNEE(S): Hoechst Schering Agrevo S.A., Fr.

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9601047	A1	19960118	WO 1995-FR859	19950628 <---
W: BR, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2721800	A1	19960105	FR 1994-8139	19940701 <---
FR 2721800	B1	19971226		
EP 768817	A1	19970423	EP 1995-924376	19950628 <---
EP 768817	B1	20000315		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 190463	E	20000415	AT 1995-924376	19950628 <---
EP 1210877	A1	20020605	EP 2000-126276	20001201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
WO 2002043488	A1	20020606	WO 2001-EP13658	20011123
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002034523	A5	20020611	AU 2002-34523	20011123
US 2002098221	A1	20020725	US 2001-997043	20011129
PRIORITY APPLN. INFO.:				
			FR 1994-8139	A 19940701
			WO 1995-FR859	W 19950628

EP 2000-126276 A 20001201  
 WO 2001-EP13658 W 20011123

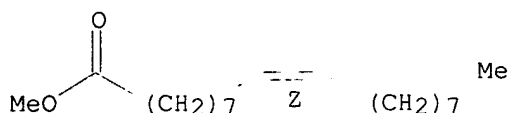
AB Emulsifiable concs. (CE) contain **pesticide(s)**, a solvent selected from esters, vegetable oils and esters thereof, and an emulsifying **surfactant** system forming an oil-in-water emulsion when the formulation is added to water. Thus, an emulsion conc. comprised: deltamethrin 25.38, Me caprylate-Me caprate mixt. 663.42, N-octylpyrrolidone 72.00, Ca dodecylbenzenesulfonate mixt. with nonionic **surfactants** 26.00, ethoxylated sorbitan trioleate 124.00, citric acid 0.20, and BHT 1.00 g/L.

IT 112-62-9, Methyl oleate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (emulsifiable **pesticide** concs. contg.)

RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L37 ANSWER 33 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:426850 HCAPLUS

DOCUMENT NUMBER: 123:135902

TITLE: Quaternary ammonium salts and tertiary amines as **pesticide** enhancers.

INVENTOR(S): Hioki, Yuichi; Hasebe, Keiko; Suzuki, Tadayuki; Tachizawa, Osamu; Tomifuji, Takeshi; Katoh, Tohru; Sotoya, Kohshiro; Tomioka, Keiichiro; Nishimoto, Uichiro; et al.

PATENT ASSIGNEE(S): Kao Corp., Japan

SOURCE: Eur. Pat. Appl., 85 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 638236	A1	19950215	EP 1994-111391	19940721 <--
EP 638236	B1	19980930		
R: BE, DE, FR, GB, IT				
US 5563111	A	19961008	US 1994-274718	19940718 <--
EP 842603	A1	19980520	EP 1998-102365	19940721 <--
EP 842603	B1	20001227		
R: BE, DE, FR, GB, IT				
BR 9403111	A	19950502	BR 1994-3111	19940729 <--
JP 07097301	A2	19950411	JP 1994-181194	19940802 <--
JP 3382363	B2	20030304		
CN 1111474	A	19951115	CN 1994-109508	19940802 <--
CN 1073795	B	20011031		
JP 07223911	A2	19950822	JP 1994-311872	19941215 <--
JP 3382396	B2	20030304		
JP 07223912	A2	19950822	JP 1994-315229	19941219 <--
JP 3382398	B2	20030304		

PRIORITY APPLN. INFO.:

JP 1993-192426 A 19930803  
 JP 1993-315309 A 19931215  
 JP 1993-318496 A 19931217



EP 1994-111391 A3 19940721

OTHER SOURCE(S): MARPAT 123:135902

AB The quaternary ammonium salts  $RR_1R_2N+CH_2CH[O(CH_2CHR_4O)_nCOR_5]CH_2R_3 X^-$  [R,R<sub>1</sub>=alkyl, (CH<sub>2</sub>CHR<sub>6</sub>O)<sub>m</sub>H, etc.; R<sub>2</sub>=H, alkyl, benzyl; R<sub>3</sub>=O(CH<sub>2</sub>CHR<sub>7</sub>O)<sub>q</sub>COR<sub>8</sub>, etc.; R<sub>4</sub>, R<sub>6</sub>, R<sub>7</sub>=H, Me; R<sub>5</sub>, R<sub>8</sub>=alkyl, alkenyl; n,m=1-30; q=0,n; X=counter ion], related compds. and tertiary amines are enhancers for insecticides, herbicides, etc. The enhancers are preferably used with nonionic **surfactants**

IT 161641-88-9 166334-07-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)  
(**pesticide enhancer**)

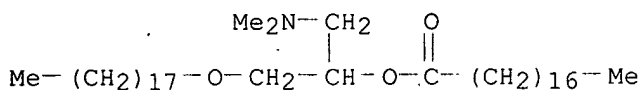
RN 161641-88-9 HCAPLUS

CN Octadecanoic acid, 1-[(dimethylamino)methyl]-2-(octadecyloxy)ethyl ester, acetate (9CI) (CA INDEX NAME)

CM 1

CRN 161641-87-8

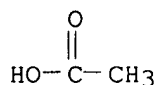
CMF C41 H83 N O3



CM 2

CRN 64-19-7

CMF C2 H4 O2



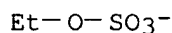
RN 166334-07-2 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-2,3-bis[(1-oxononadecenyl)oxy]-, ethyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 48028-76-8

CMF C2 H5 O4 S



CM 2

CRN 166334-06-1

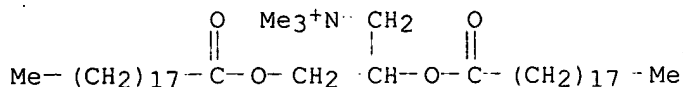
CMF C44 H84 N O4

CCI IDS

CM 3

CRN 166334-05-0

CMF C44 H88 N O4



L37 ANSWER 34 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1993:443376 HCAPLUS

DOCUMENT NUMBER: 119:43376

TITLE: **Pesticide** preparations containing carbonate salts, water-soluble acids, and solvents, for application to the surface of water.

INVENTOR(S): Noguchi, Tatsuo; Nakashio, Osamu; Yagyu, Norihide; Yonemura, Shinji

PATENT ASSIGNEE(S): Hokko Chem Ind Co, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05085901	A2	19930406	JP 1991-273609	19910926 <--
JP 3283048	B2	20020520		
JP 2002003301	A2	20020109	JP 2001-200330	19910926 <--

PRIORITY APPLN. INFO.: JP 1991-273609 A3 19910926

AB Solid foaming prepns., which are spreading rapidly on the surface of paddy water, contain **pesticides**, carbonates, water-sol. solid acids, and high-b.p. solvents. Phenothiol 2.1, simetryn 4.5, citric acid 30, NaHCO<sub>3</sub> 30, diisobutyl adipate 5, white C 3, and clay 25.4 wt. parts were mixed and the mixt. (50 g) was packaged into a poly(vinyl alc.) film. The prepn. was applied to paddy, to show total control of Echinochloa oryzicola, Scirpus juncoides, Lindernia procumbens, and Monochoria vaginalis. with no damage to rice, vs. less effect, for a control prepn. formulated without diisopropyl adipate.

IT 112-62-9, Methyl oleate 1338-39-2, Sorbitan monolaurate

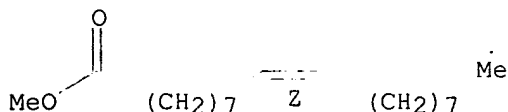
RL: BIOL (Biological study)

(foaming **pesticide** prepns. contg. carbonate salts and acids and, for paddy)

RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7

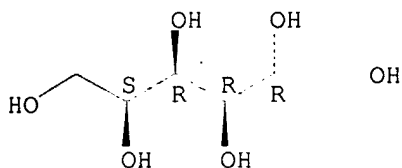
CMF C12 H24 O2

HO<sub>2</sub>C- (CH<sub>2</sub>)<sub>10</sub>-Me

CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.

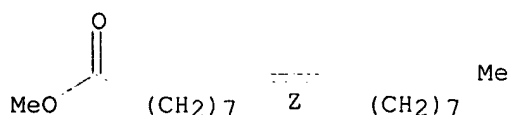


L37 ANSWER 35 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1993:443369 HCAPLUS  
 DOCUMENT NUMBER: 119:43369  
 TITLE: Packaged floating paddy **pesticide** preparations.  
 INVENTOR(S): Nabeya, Yoshihiko; Kurotsu, Juichi; Yagyu, Norihide; Yonemura, Shinji  
 PATENT ASSIGNEE(S): Hokko Chem Ind Co, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05078204	A2	19930330	JP 1991-268669	19910920 <--
JP 2860920	B2	19990224		

PRIORITY APPLN. INFO.: JP 1991-268669 19910920  
 AB Preps., which float on paddy water, comprise 10-100 g solid comps. (av. particle size .ltoreq.600 .mu.m), contg. **pesticides**, inorg. floating substances (av. particle size .ltoreq.250 .mu.m), and high-b.p. solvents, packaged into water-sol. polymer films. Probenazole 20, perlite (av. particle size 80 .mu.m) 77, and diisobutyl adipate 3 wt. parts were mixed to give a powder (av. particle size 5-150 .mu.m), which (50 g) was packaged into a poly(vinyl alc.) film. The prepn. spread well on water.  
 IT 112-62-9, Methyl oleate 1338-39-2, Sorbitan monolaurate  
 RL: BIOL (Biological study)  
 (pesticide preps. contg., floating, packaged, for paddy)  
 RN 112-62-9 HCAPLUS  
 CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

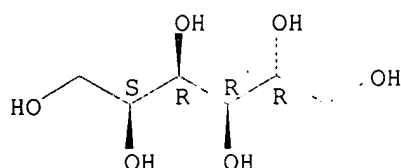
CRN 143-07-7  
CMF C12 H24 O2

HO<sub>2</sub>C- (CH<sub>2</sub>)<sub>10</sub>-Me

CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.



L37 ANSWER 36 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1993:237126 HCAPLUS  
DOCUMENT NUMBER: 118:237126  
TITLE: Aqueous emulsion and its use for delivery of aerosol composition  
INVENTOR(S): Neumiller, Phillip J.  
PATENT ASSIGNEE(S): Johnson, S. C., and Son, Inc., USA  
SOURCE: U.S., 13 pp. Cont.-in-part of U.S. 5,091,111.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5145604	A	19920908	US 1992-832168	19920206 <--
US 5091111	A	19920225	US 1990-584963	19900919 <--
PRIORITY APPLN. INFO.:			US 1990-584963	19900919

AB The aq. emulsion system comprises a mixt. of a non-ionic **surfactant**, a C2-18 primary alc., a compd. selected from polyhydroxy alcs., polyhydroxy alc. esters, and mixts. thereof, and an active ingredient, and balance water. The active ingredient to be delivery can include insect repellent, odor-imparting materials, cleaning and polishing material, dermal treatment material, or stain removal agent. The aq. emulsion system contains vesicular structures of an av. size of 10-300 nm.

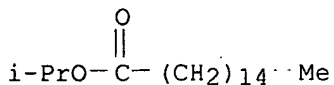
IT 142-91-6, Isopropyl palmitate

RL: USES (Uses)

(aerosol emulsion contg., propellants for delivery of)

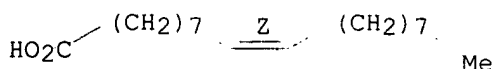
RN 142-91-6 HCAPLUS

CN Hexadecanoic acid, 1-methylethyl ester (9CI) (CA INDEX NAME)



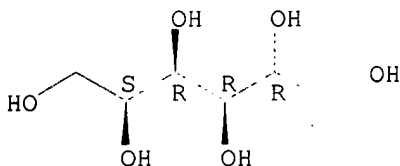
IT 1338-43-8, Span 80  
 RL: USES (Uses)  
 (emulsifier, aerosol emulsion contg., propellants for delivery of)  
 RN 1338-43-8 HCAPLUS  
 CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 112-80-1  
 CMF C18 H34 O2

Double bond geometry as shown.



CM 2  
 CRN 50-70-4  
 CMF C6 H14 O6

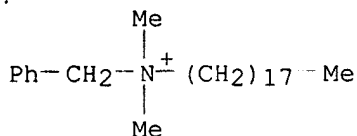
Absolute stereochemistry.



L37 ANSWER 37 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1992:464582 HCAPLUS  
 DOCUMENT NUMBER: 117:64582  
 TITLE: Salmonella mutagenicity tests: V. Results from the testing of 311 chemicals  
 AUTHOR(S): Zeiger, Errol; Anderson, Beth; Haworth, Steve; Lawlor, Timothy; Mortelmans, Kristien  
 CORPORATE SOURCE: Exp. Carcinog. Mutagen. Branch, Natl. Inst. Environ. Health Sci., Research Triangle Park, NC, USA  
 SOURCE: Environmental and Molecular Mutagenesis (1992), 19(Suppl. 21), 2-141  
 CODEN: EMMUEG; ISSN: 0893-6692  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Three hundred eleven chems. were tested under code, for mutagenicity, in S. typhimurium; 35 of the chems. were tested more than once in the same or different labs. The tests were conducted using a preincubation protocol in the absence of exogenous metabolic activation, and in the presence of liver S-9 from Aroclor-induced male Sprague-Dawley rats and Syrian hamsters. Some of the volatile chems. were also tested in desiccators. A total of 120 chems. were mutagenic or weakly mutagenic, 3 were judged questionable, and 172 were nonmutagenic. The remaining 16 chems. produced

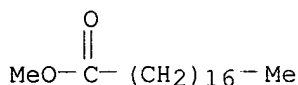
different responses in the two or three labs. in which they were tested.  
The results and data from these tests are presented.

IT 122-19-0  
RL: BIOL (Biological study)  
(mutagenicity of, testing of)  
RN 122-19-0 HCAPLUS  
CN Benzenemethanaminium, N,N-dimethyl-N-octadecyl-, chloride (9CI) (CA INDEX NAME)



● Cl<sup>-</sup>

IT 26638-28-8, Methyl pentachlorostearate  
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)  
(mutagenicity of, testing of)  
RN 26638-28-8 HCAPLUS  
CN Octadecanoic acid, pentachloro-, methyl ester (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



5 ( D1-C1 )

L37 ANSWER 38 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:585819 HCAPLUS  
DOCUMENT NUMBER: 115:185819  
TITLE: Liquid cleaning compositions and suspending media  
INVENTOR(S): Hawkins, John; Nicholson, William J.  
PATENT ASSIGNEE(S): Albright and Wilson Ltd., UK  
SOURCE: Can. Pat. Appl., 17 pp.  
CODEN: CPXXEB  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2023990	AA	19910225	CA 1990-2023990	19900824 <--
CA 2023990	C	20010612		
JP 03205500	A2	19910906	JP 1990-224149	19900824 <--
JP 07059720	B4	19950628		
RO 109209	B1	19941230	RO 1991-147226	19910326 <--
PRIORITY APPLN. INFO.:			GB 1989-19254	A 19890824

AB Suspensions are prepd. from water, .gtoreq.1 surfactant forming a mobile spherulitic or dispersed lamellar phase in the absence of electrolyte, and a substantially water-insol. functional material such as

a zeolite or an abrasive. A pourable, non-sedimenting, low-foaming detergent compn. for automatic dishwashers contained ethoxylated (9 mol) lauric acid 6.6, ethoxylated (6 mol) cetyl-oleyl alc. 13.3, Wessallith P 20, perfume 0.1, defoamer (silicone) 0.2, and water 59.8%.

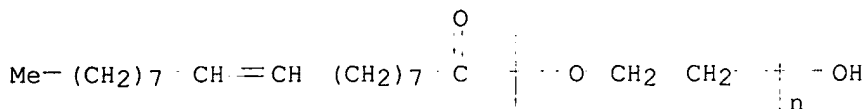
IT 9004-96-0

RL: USES (Uses)

(liq. cleaning compns. contg. suspended solids and, storage-stable)

RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 39 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:159164 HCAPLUS

DOCUMENT NUMBER: 114:159164

TITLE: Pesticide microencapsulation

INVENTOR(S): Misselbrook, John; McKinney, Larry J.; Lefiles, James H.; Hoff, Edwin F., Jr.; Bergman, Elliot

PATENT ASSIGNEE(S): Griffin Corp., USA

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 380325	A2	19900801	EP 1990-300751	19900124 <--
EP 380325	A3	19920122		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL				
US 5160530	A	19921103	US 1989-301458	19890124 <--
CA 2007320	AA	19900724	CA 1990-2007320	19900108 <--
IN 170673	A	19920502	IN 1990-CA30	19900109 <--
AU 9047913	A1	19900802	AU 1990-47913	19900111 <--
AU 639678	B2	19930805		
ZA 9000201	A	19901031	ZA 1990-201	19900111 <--
DD 297761	A5	19920123	DD 1990-337250	19900122 <--
RO 106643	B1	19930630	RO 1990-143862	19900122 <--
BR 9000271	A	19901120	BR 1990-271	19900123 <--
HU 53771	A2	19901228	HU 1990-237	19900123 <--
PL 163350	B1	19940331	PL 1990-283412	19900123 <--
CN 1045330	A	19900919	CN 1990-100393	19900124 <--
JP 02288805	A2	19901128	JP 1990-12752	19900124 <--

PRIORITY APPLN. INFO.: US 1989-301458 A 19890124

AB **Pesticides** microencapsulated as melts, by dispersion or emulsification in an aq. soln. of a film-forming polymer, followed by spray drying. Crystn.-initiating compds., such as BzOH, may be added to the suspension or emulsion. The method is also useful to enrich trifluralin in the yellow polymorph with m.p. 41-43.degree.. Other **pesticides** may also be microencapsulated in the desired polymorphic state. Trifluralin (84.2 g) was melted and emulsified, at 60.degree., in an aq. soln. of 15.7 g partially-hydrolyzed PVA and 0.1 g Na dioctyl succinate in 157.0 g water. The emulsion was spray-dried at 180.degree.. The microcapsules obtained (20-25 .mu.m) were packaged in foil laminate bags and heated to 55-60.degree. to assure melting of the

undesired polymorph, and then rapidly cooled to 0.degree., to effect the solidification of trifluralin and produce the desired yellow polymorphic form.

IT 1338-39-2, Sorbitan monolaurate 1338-43-8, Sorbitan monooleate 9004-99-3, Polyethylene glycol monostearate 9016-45-9 25155-30-0, Sodium dodecylbenzene sulfonate  
 RL: BIOL (Biological study)  
 (crystn. initiator, in pesticide microencapsulation)  
 RN 1338-39-2 HCAPLUS  
 CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

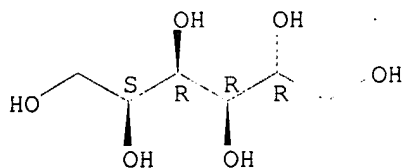
CRN 143-07-7  
 CMF C12 H24 O2

HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>10</sub>-Me

CM 2

CRN 50-70-4  
 CMF C6 H14 O6

Absolute stereochemistry.

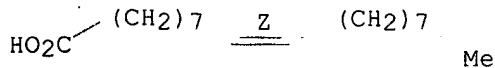


RN 1338-43-8 HCAPLUS  
 CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1  
 CMF C18 H34 O2

Double bond geometry as shown.

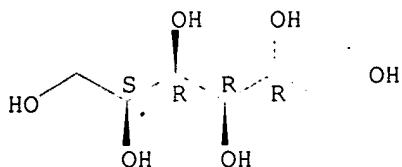


CM 2

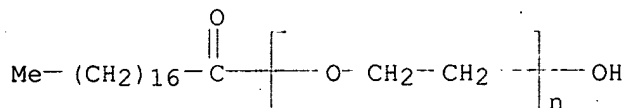
CRN 50-70-4  
 CMF C6 H14 O6

Absolute stereochemistry.

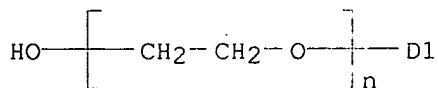




RN 9004-99-3 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



D1-(CH2)8-Me

RN 25155-30-0 HCAPLUS  
 CN Benzenesulfonic acid, dodecyl-, sodium salt (8CI, 9CI) (CA INDEX NAME)



D1-SO3H

Me-(CH2)11-D1

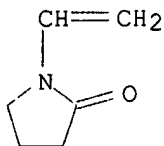
Na

IT 9003-39-8, Poly(vinylpyrrolidone)  
 RL: BIOL (Biological study)  
 (pesticides microencapsulation in)

RN 9003-39-8 HCAPLUS  
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 88-12-0  
 CMF C6 H9 N O



L37 ANSWER 40 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1990:597646 HCAPLUS.  
 DOCUMENT NUMBER: 113:197646  
 TITLE: Preparation of fatty acid or hydroxy fatty acid esters  
 of polyglycerol isopropylidene derivatives  
 INVENTOR(S): Jakobson, Gerald; Siemanowski, Werner; Uhlig, Karl  
 Heinz  
 PATENT ASSIGNEE(S): Deutsche Solvay-Werke G.m.b.H., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 4 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

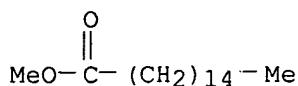
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3818292	A1	19891207	DE 1988-3818292	19880530 <--
EP 344419	A2	19891206	EP 1989-104882	19890318 <--
EP 344419	A3	19900131		
EP 344419	B1	19930127		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 85041	E	19930215	AT 1989-104882	19890318 <--
ES 2053840	T3	19940801	ES 1989-104882	19890318 <--
US 5024787	A	19910618	US 1989-357006	19890525 <--
JP 02149542	A2	19900608	JP 1989-132902	19890529 <--
JP 2786253	B2	19980813		

PRIORITY APPLN. INFO.: DE 1988-3818292 19880530  
 EP 1989-104882 19890318

AB The title compds. are prepd. by reacting isopropylidene derivs. of a polyglycerol with fatty acid alkyl esters or mono- or polyhydroxy fatty acid alkyl esters (C6-22 in the acid and C1-4 in the ester component) in an alk. medium. A mixt. of 1.52 kg Me oleate and 25 g K2CO3 was heated at 160.degree.. Water was distd. off at 100 mbar, followed by the addn. of 820 g diisopropylidenetriglycerol and heating to 180.degree. to give the title compds. The compds. are used in cosmetics and as solvents or solubilizing agents for pesticides and pharmaceuticals.

IT 112-39-ODP, Methyl palmitate, reaction products with monoisopropylidene diglycerol 112-62-9DP, Methyl oleate, reaction products with diisopropylidene triglycerol  
 RL: PREP (Preparation)  
 (prepn. of, as solvent and for cosmetics)

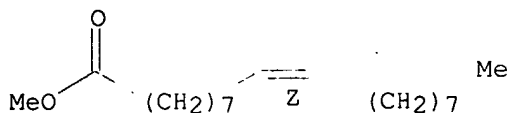
RN 112-39-0 HCAPLUS  
 CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 112-62-9 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L37 ANSWER 41 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:514306 HCAPLUS

DOCUMENT NUMBER: 113:114306

TITLE: Manufacture of aerosol foam fertilizer, for horticulture

INVENTOR(S): Uchida, Norio; Sakamoto, Naoki; Takei, Koji

PATENT ASSIGNEE(S): Fumakilla Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01230490	A2	19890913	JP 1988-56411	19880311 <--
JP 2540353	B2	19961002		

PRIORITY APPLN. INFO.: JP 1988-56411 19880311

AB An aerosol fertilizer contains an aq. soln. of fertilizer, 0.01-2.0% nonionic **surfactant**, <30 wt.% ionic **surfactant** and propellant. The aerosol spray contains 5-20% Me<sub>2</sub>O or 0.1-2% CO<sub>2</sub> gas, 0-5 wt.% normal paraffin, and a fertilizer contg.  $\text{gtoreq.1}$  agrochem., such as a **pesticide**, plant growth regulator, etc. KH<sub>2</sub>PO<sub>4</sub> 0.26, K<sub>2</sub>HPO<sub>4</sub> 0.20, (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> 1.0, poly(oxyethylene) lauryl ether 0.3, normal paraffin 1.0, water 87.47, and DME 9.77 wt.% were formulated as an aerosol fertilizer.

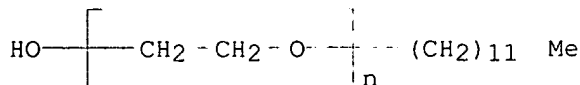
IT 9002-92-0 9004-99-3, Polyethylene glycol stearate

RL: BIOL (Biological study)

(aerosol foam fertilizer contg.)

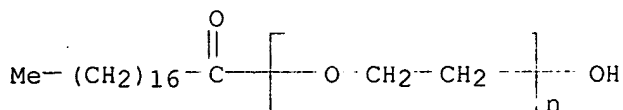
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 42 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1988:206316 HCAPLUS

DOCUMENT NUMBER: 108:206316

TITLE: Process for introducing useful additives into already manufactured and fabricated flexible vinyl products

INVENTOR(S): Gasman, Robert C.

PATENT ASSIGNEE(S): USA

SOURCE: U.S., 6 pp.  
CODEN: USXXAM

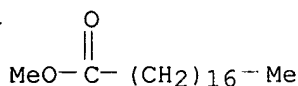
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

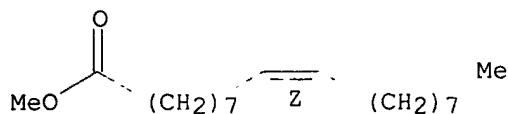
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 4728540	A	19880301	US 1987-3563	19870114 <--
PRIORITY APPLN. INFO.:				US 1987-3563	19870114
AB	Fabricated vinyls are reconditioned to prevent mildew, cracking, etc. by spreading on the surface at ambient a soln. of a plasticizer liq. having sp. vapor pressure <150 mm Hg at 200.degree., soly. parameter 7.7-12.5 cal/cm <sup>3</sup> .times. 0.5, absorption time <10 days at room temp., and viscosity <79 cP at 20.degree., and additives (e.g., mildewcide, light stabilizer) which is sol: to 0.001 parts at 4.degree. and does not increase plasticizer absorption time >30 days at room temp. at min. concn. 0.001 parts. A soln. of 1 part 2-ethylhexyl-2-cyano-3,3-diphenyl acrylate (UV stabilizer) in 2,2,4-trimethyl-1,3-pentanediol diisobutyrate (plasticizer) was applied to white vinyl fabric and absorbed in 47 h at room temp.				
IT	112-61-8, Methyl stearate 112-62-9 123-95-5				
	RL: USES (Uses) (antiblocking agent, plasticizer soln. contg., for reconditioning fabricated vinyls)				
RN	112-61-8 HCAPLUS				
CN	Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)				



RN 112-62-9 HCAPLUS

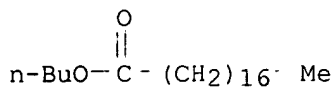
CN 9-Octadecenoic acid (9Z)-, methyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

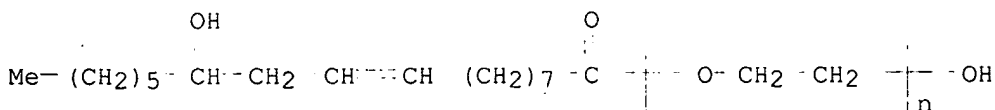


RN 123-95-5 HCAPLUS

CN Octadecanoic acid, butyl ester (9CI) (CA INDEX NAME)



L37 ANSWER 43 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1987:445928 HCAPLUS  
 DOCUMENT NUMBER: 107:45928  
 TITLE: GC/MS, HPLC and FAB mass spectrometric analysis of organic micropollutants in Barcelona's water supply  
 AUTHOR(S): Rivera, Josep; Ventura Josep; Caixach, Josep; De Torres, Mariona; Figueras, Albert  
 CORPORATE SOURCE: Dep. Quim. Ambiental, CSIC, Barcelona, 08034, Spain  
 SOURCE: International Journal of Environmental Analytical Chemistry (1987), 29(1-2), 15-35  
 CODEN: IJEAA3; ISSN: 0306-7319  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Water samples from the Llobregat River entering 2 water work plants, Barcelona tap water, and waste dumping samples taken along the river course were analyzed for trace org. contaminants by different procedures, liq.-liq. extn., adsorption on granular activated C followed by gas chromatog./mass spectrometry (GC/MS). Ether-insol. org. fractions were analyzed and fractionated by HPLC with diode-array detection, followed by fast-atom bombardment (FAB) and fast-atom bombardment-collision induced dissocn.-MIKES characterization. The results, after 2 yrs of monitoring, proved that **surfactants**, plasticizers, ethylene glycol derivs., phosphates, hydrocarbons, and other misc. compds. are considered chronic pollutants of the Llobregat River. Some of the compds. identified by GC/MS and FAB mass spectrometry have not been previously reported to occur in water.  
 IT 109181-03-5  
 RL: POL (Pollutant); OCCU (Occurrence)  
 (water pollution by, of Llobregat River, Spain)  
 RN 109181-03-5 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(12-hydroxy-1-oxo-9-octadecenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



L37 ANSWER 44 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1986:202345 HCAPLUS  
 DOCUMENT NUMBER: 104:202345  
 TITLE: A biocidal fine powder and its suspension for agricultural use  
 INVENTOR(S): Iwasaki, Tetsuji; Kamishisa, Yasushi  
 PATENT ASSIGNEE(S): Kao Corp., Japan  
 SOURCE: Eur. Pat. Appl., 57 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 173964	A2	19860312	EP 1985-110889	19850829 <--
EP 173964	A3	19880525		
EP 173964	B1	19921202		
R: DE, FR, GB, IT				
JP 61063601	A2	19860401	JP 1984-185889	19840905 <--
JP 01007041	B4	19890207		
JP 61097202	A2	19860515	JP 1984-218149	19841017 <--
JP 63058802	B4	19881117		
CA 1264566	A1	19900123	CA 1985-489552	19850828 <--
ES 546715	A1	19861201	ES 1985-546715	19850904 <--
CN 85107298	A	19860730	CN 1985-107298	19851007 <--
CN 1005375	B	19891011		

PRIORITY APPLN. INFO.:

JP 1984-185889 19840905  
JP 1984-218149 19841017

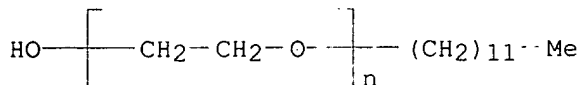
AB **Pesticidal** suspensions are given in which .gtoreq.50% of the particles has diams. .ltoreq.0.5 .mu.. The dispersion agents are water-sol. or water-dispersible polymers, such as a styrene sulfonate polymer. Thus, a mixt. of Topsin M 60, [CH<sub>2</sub>CH(CO<sub>2</sub>Na)]<sub>n</sub> (mol. wt. .apprx.350,000) 4, and water 55 g was ground with glass beads in a sand grinder to give a microbicidal suspension. The suspension applied with soybean oil-glycerol mixt. and polyoxyalkylene adjuvants was more potent in controlling soft rot on Chinese cabbage than was a conventional Topsin M dispersible powder.

IT 9002-92-0 9004-96-0 9016-45-9  
9039-01-4

RL: BIOL (Biological study)  
(suspension agent, for **pesticide** formulations)

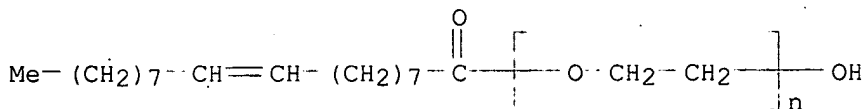
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



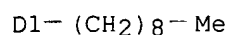
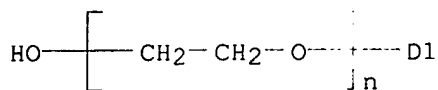
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9039-01-4 HCAPLUS

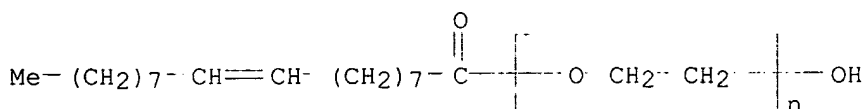
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy-, ether with D-glucitol (9CI) (CA INDEX NAME)

CM 1

CRN 9004-96-0

CMF (C2 H4 O)<sub>n</sub> C18 H34 O2

CCI PMS

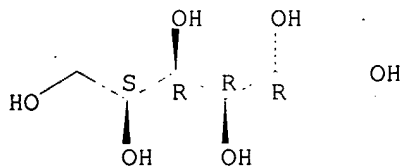


CM 2

CRN 50-70-4

CMF C6 H14 O6

Absolute stereochemistry.



L37 ANSWER 45 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1986:193210 HCAPLUS

DOCUMENT NUMBER: 104:193210

TITLE: Erodible matrix for sustained release bioactive composition

INVENTOR(S): Snipes, Wallace C.

PATENT ASSIGNEE(S): Zetachron, Inc., USA

SOURCE: PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 8600802	A1	19860213	WO 1985-US1349	19850717 <--
W: AU, JP, KP				
RW: BE, CH, DE, FR, GB, NL				
CA 1246448	A1	19881213	CA 1985-486711	19850712 <--
AU 8546388	A1	19860225	AU 1985-46388	19850717 <--
AU 573149	B2	19880526		
EP 190255	A1	19860813	EP 1985-903908	19850717 <--
EP 190255	B1	19921111		
R: BE, CH, DE, FR, GB, LI, NL				
JP 61502759	T2	19861127	JP 1985-503436	19850717 <--
PRIORITY APPLN. INFO.:			US 1984-633604	19840723
			WO 1985-US1349	19850717

AB A sustained-release oral compn. erodable in aq. soln. comprises 5-95% by wt. of PEG (mol. wt. 1000-20,000) and 95-5% of an erosion rate modifier (e.g., fatty acid) which is amphiphilic and insol. in the aq. soln. Thus, compns. contg. PEGs 1000, 4000, 8000, or 20,000 (37.5% each), myristic acid 15%, starch (22.5%), and indomethacin 25% all released the drug gradually over a period of several h.

IT **31566-31-1**  
 RL: BIOL (Biological study)  
 (erosion rate modifier, for sustained-release pharmaceuticals with polyethylene glycol matrix)

RN 31566-31-1 HCAPLUS

CN Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)

CM 1

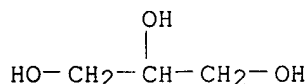
CRN 57-11-4

CMF C18 H36 O2

HO<sub>2</sub>C-(CH<sub>2</sub>)<sub>16</sub>-Me

CM 2

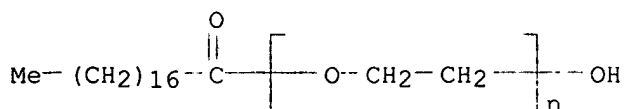
CRN 56-81-5  
 CMF C3 H8 O3



IT **9004-99-3**  
 RL: BIOL (Biological study)  
 (sustained-release erodable matrix pharmaceutical compns. manuf. with)

RN 9004-99-3 HCAPLUS

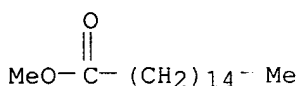
CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



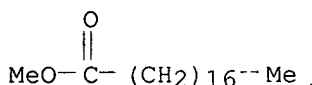


L37 ANSWER 46 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:458931 HCAPLUS  
 DOCUMENT NUMBER: 103:58931  
 TITLE: Herbicide and **surfactant** spill analysis of  
 an industrial waste dumping at Llobregat River (Spain)  
 AUTHOR(S): Rivera, J.; Caixach, J.; Ventura, F.; Espadaler, I.  
 CORPORATE SOURCE: Inst. Quim. Bio-Org., CSIC, Barcelona, 08034, Spain  
 SOURCE: Chemosphere (1985), 14(5), 395-402  
 CODEN: CMSHAF; ISSN: 0045-6535  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Com. herbicides, atrazine [1912-24-9], trifluralin [1582-09-8],  
**surfactants** and related compds. such as dodecylbenzene  
 [123-01-3], long chain alcs., and nonylphenol [112-53-8] have been found  
 in the Llobregat River, Spain, and are suspected of causing environmental  
 impacts such as fish mortality and groundwater pollution of riparian  
 wells. The pollutants come from industrial wastes.  
 IT 112-39-0 112-61-8  
 RL: POL (Pollutant); OCCU (Occurrence)  
 (water pollution by, of Llobregat River, Spain)  
 RN 112-39-0 HCAPLUS  
 CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 112-61-8 HCAPLUS  
 CN Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



L37 ANSWER 47 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:144862 HCAPLUS  
 DOCUMENT NUMBER: 102:144862  
 TITLE: Water-dispersible agrochemical granules  
 PATENT ASSIGNEE(S): Hokko Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 59193803	A2	19841102	JP 1983-68416	19830420 <--
JP 62053482	B4	19871110		

PRIORITY APPLN. INFO.: JP 1983-68416 19830420

AB Addn. of anionic and nonionic **surfactants** to water-dispersible  
 agrochem. granules markedly increases disintegration and dispersibility in  
 water. Thus, a suitable granular compn. is comprised of BPMC [3766-81-2]  
 40, white C 50, ethylene oxide propylene oxide dodecyl ether ammonium  
 sulfate [65423-84-9] 5, and ethylene oxide nonylphenol ether ammonium  
 sulfate [9051-57-4] 5 parts.

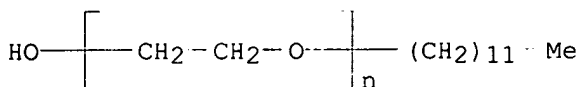
IT 9002-92-0 9004-96-0 9004-99-3  
9005-00-9 9016-45-9 17630-08-9  
31566-31-1

RL: BIOL (Biological study)

(water dispersibility improvement with, for agrochem. granules)

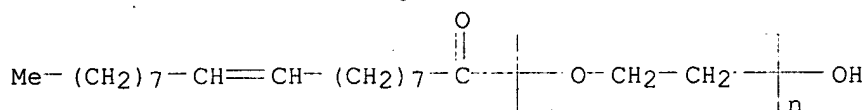
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



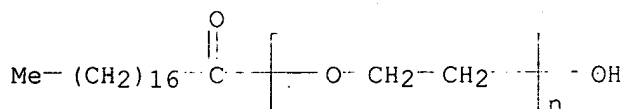
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



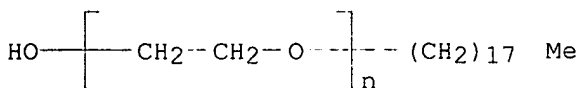
RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



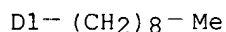
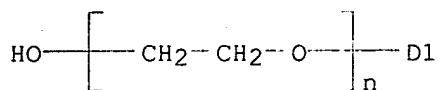
RN 9005-00-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)

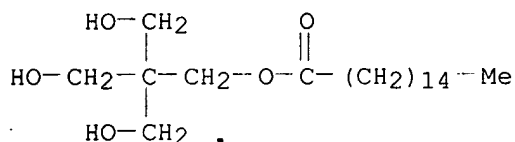


RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



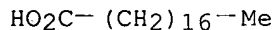
RN 17630-08-9 HCAPLUS  
 CN Hexadecanoic acid, 3-hydroxy-2,2-bis(hydroxymethyl)propyl ester (9CI) (CA INDEX NAME)



RN 31566-31-1 HCAPLUS  
 CN Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)

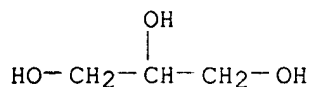
CM 1

CRN 57-11-4  
 CMF C18 H36 O2



CM 2

CRN 56-81-5  
 CMF C3 H8 O3



L37 ANSWER 48 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1985:108273 HCAPLUS  
 DOCUMENT NUMBER: 102:108273  
 TITLE: Agricultural chemical preparation in the form of aqueous suspension  
 INVENTOR(S): Minagawa, Fumiyasu; Tange, Toshiyuki; Maeda, Kazuyuki  
 PATENT ASSIGNEE(S): Yuko Chemical Industries Co., Ltd., Japan; Sumitomo Corp.  
 SOURCE: Eur. Pat. Appl., 25 pp.  
 CODEN: EPXXDW

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 131762	A1	19850123	EP 1984-106802	19840614 <--
EP 131762	B1	19910123		
R: CH, DE, FR, GB, IT, LI				
JP 60001101	A2	19850107	JP 1983-108404	19830615 <--
JP 63062482	B4	19881202		

PRIORITY APPLN. INFO.: JP 1983-108404 19830615

AB Stable and safe aq. suspension was prepd. of agricultural chems. which are hardly sol. or insol. in water. The suspension comprises an active ingredient, nonionic **surfactant**, thickener, and water. The prepn. was simple and free of drawbacks unavoidable in conventional methods. Thus, fenitrothion [122-14-5] (10 g) was mixed with 5 g sorbitan monooleate [1338-43-8] and the mixt. was suspended in an aq. soln. of xanthan gum [11138-66-2] (0.6 g) in H2O (84.4 g) at 25.degree. to give an aq. suspension of fenitrothion. Aq. suspensions of other **pesticides** were also prepd. These aq. suspensions showed fast-acting effects, superior residual effects, and lowered toxic and irritation effects, as compared to com. available emulsifiable concs.

IT 1338-39-2 1338-43-8 9002-92-0  
9004-96-0 9016-45-9  
RL: BIOL (Biological study)  
(agricultural chem. aq. suspensions contg.)

RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

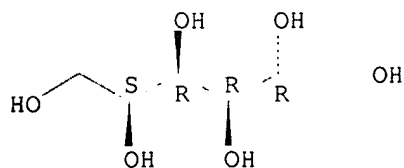
CRN 143-07-7  
CMF C12 H24 O2.

$$\text{HO}_2\text{C}-(\text{CH}_2)_{10}-\text{Me}$$

CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.

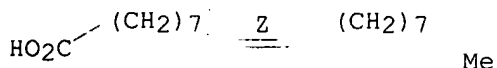


RN	1338-43-8	HCAPLUS	
CN	Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)		

CM 1

CRN 112-80-1  
CMF C18 H34 O2

Double bond geometry as shown.

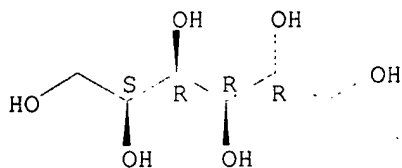


CM 2

CRN 50-70-4

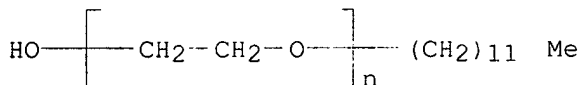
CMF C6 H14 O6

Absolute stereochemistry.



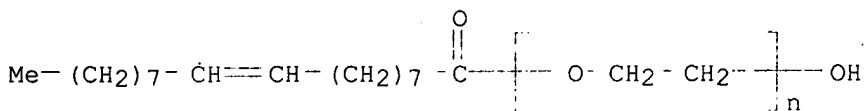
RN 9002-92-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



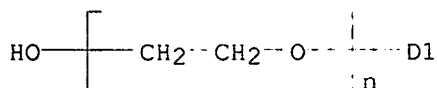
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



D1--(CH<sub>2</sub>)<sub>8</sub>--Me

L37 ANSWER 49 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:152504 HCAPLUS

DOCUMENT NUMBER: 100:152504

TITLE: Phospholipid concentrate and its use as an adjuvant for producing and discharging of spray mixtures containing an agricultural **pesticide**

INVENTOR(S): Ghyczy, Miklos; Imberge, Paul Robert; Wendel, Armin

PATENT ASSIGNEE(S): Nattermann, A., und Cie. G.m.b.H., Fed. Rep. Ger.

SOURCE: Ger., 5 pp.  
CODEN: GWXXAW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3225703	C1	19840119	DE 1982-3225703	19820709 <--
EP 98561	A2	19840118	EP 1983-106463	19830702 <--
EP 98561	A3	19840215		
EP 98561	B1	19860910		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 21983	E	19860915	AT 1983-106463	19830702 <--
JP 59021696	A2	19840203	JP 1983-121124	19830705 <--
JP 04054678	B4	19920831		
DD 209951	A5	19840530	DD 1983-252809	19830706 <--
CA 1203993	A1	19860506	CA 1983-431956	19830706 <--
CS 235328	B2	19850515	CS 1983-5160	19830707 <--
AU 8316697	A1	19840112	AU 1983-16697	19830708 <--
BR 8303675	A	19840214	BR 1983-3675	19830708 <--
ZA 8305017	A	19840425	ZA 1983-5017	19830708 <--
HU 32980	O	19841029	HU 1983-2458	19830708 <--
HU 197657	B	19890529		
US 4681617	A	19870721	US 1985-755967	19850717 <--
PRIORITY APPLN. INFO.:			DE 1982-3225703	19820709
			US 1983-508662	19830628
			EP 1983-106463	19830702

AB Compns. comprised of phospholipids, alc. and (or) ether solvent, nonionic **surfactant**, sorbitan fatty acid ester or glyceride solubilizing agent, glycerol [56-81-5], water, and (or) oil are phospholipid concs. suitable as adjuvants for **pesticides**. Phospholipids include phosphatidylcholines (PC), phosphatidylethanolamines (PE), N-acyl-PE, phosphatidylinositols, phosphatidylserines, phosphatidylglycerols, etc. Thus, a typical conc. is comprised of phospholipids (PC, PE, N-acyl-PE, phosphatides) 26.6, glycerol 10, 3,5,5-trimethyl-2-cyclohexen-1-one [78-59-1] 23.4, ethoxylated castor oil 3.3, sorbitan monopalmitate [26266-57-9] 3.3, water 13.4, and plant or neutral oil 20% by wt. The proportion of active ingredient to phospholipid appropriate for use is from 1:0.5 to 1:5, preferably 1:1-1:2.

IT 1338-39-2 1338-43-8 9004-96-0  
9016-45-9

RL: BIOL (Biological study)  
(phospholipid concs. contg., as **pesticidal** adjuvants)

RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7

CMF C12 H24 O2

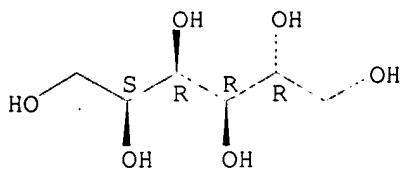
HO<sub>2</sub>C- (CH<sub>2</sub>)<sub>10</sub>-Me

CM 2

CRN 50-70-4

CMF C6 H14 O6

Absolute stereochemistry.



RN 1338-43-8 HCAPLUS

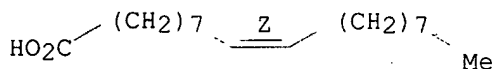
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.

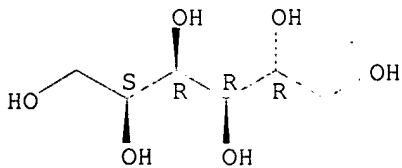


CM 2

CRN 50-70-4

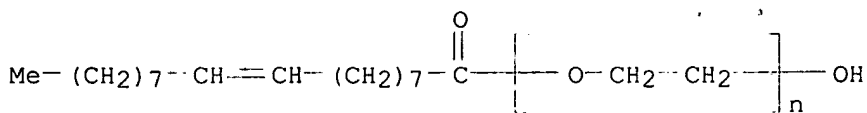
CMF C6 H14 O6

Absolute stereochemistry.



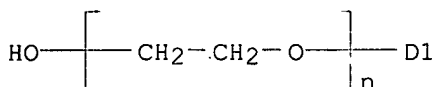
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
(CA INDEX NAME)



D1-- (CH<sub>2</sub>)<sub>8</sub>-Me

L37 ANSWER 50 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1984:81271 HCAPLUS

DOCUMENT NUMBER: 100:81271

TITLE: Pressurized aerosol **pesticide** formulation

INVENTOR(S): Lord, Brian Kenneth; Bamford, James Michael

PATENT ASSIGNEE(S): Fisons PLC, UK

SOURCE: Brit. UK Pat. Appl., 4 pp.

CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2119251	A1	19831116	GB 1983-11518	19830427 <--
GB 2119251	B2	19860305		

PRIORITY APPLN. INFO.: GB 1982-12757 19820501

AB Compns. comprised of permethrin [52645-53-1], a hydrocarbon propellant, an aliph. hydrocarbon solvent, a sorbitol ester, polyethyleneglycol oleate, water, and optionally an addnl. **pesticidal** agent, are formulated as pressurized aerosol **pesticides**. Thus, a suitable compn. is comprised of permethrin 0.1, dicofol [115-32-2] 0.24, Exsol 200/240 5.0, sorbitan monooleate [1338-43-8] 0.3, polyethyleneglycol 200 oleate [9004-96-0] 0.9, 480 kPa abs. butane [106-97-8] blend 35.0% (wt./wt.), and demineralized water (to 100%).

IT 1338-43-8 9004-96-0

RL: USES (Uses)

(**pesticide** aerosols contg.)

RN 1338-43-8 HCAPLUS

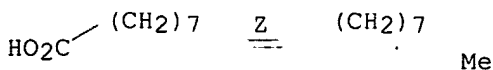
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1

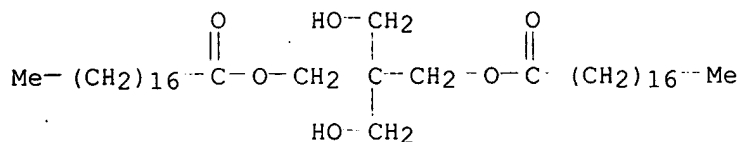
CMF C18 H34 O2

Double bond geometry as shown.



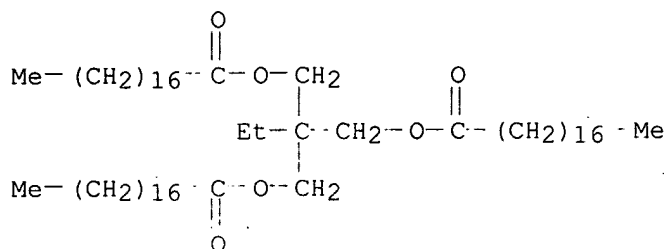






RN 15196-52-8 HCAPLUS

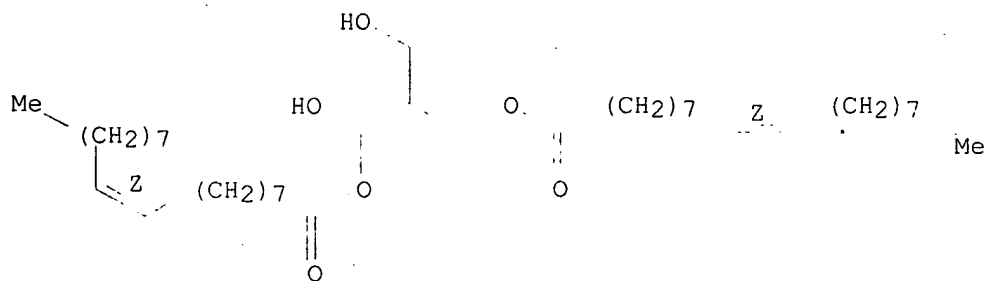
CN Octadecanoic acid, 2-ethyl-2-[[ (1-oxooctadecyl)oxy]methyl]-1,3-propanediyl ester (9CI) (CA INDEX NAME)



RN 25151-96-6 HCAPLUS

CN 9-Octadecenoic acid (9Z)-, 2,2-bis(hydroxymethyl)-1,3-propanediyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



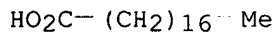
RN 31566-31-1 HCAPLUS

CN Octadecanoic acid, monoester with 1,2,3-propanetriol (9CI) (CA INDEX NAME)

CM 1

CRN 57-11-4

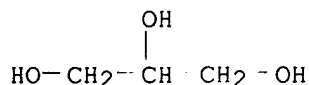
CMF C18 H36 O2



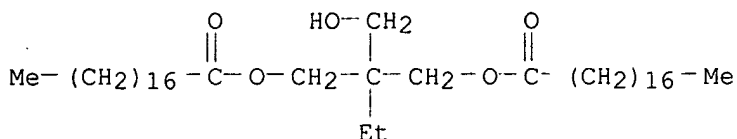
CM 2

CRN 56-81-5

CMF C3 H8 O3



RN 66753-01-3 HCAPLUS  
 CN Octadecanoic acid, 2-ethyl-2-(hydroxymethyl)-1,3-propanediyl ester (9CI)  
 (CA INDEX NAME)

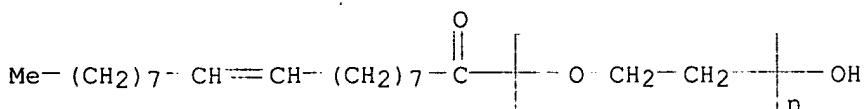


L37 ANSWER 52 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1982:577005 HCAPLUS  
 DOCUMENT NUMBER: 97:177005  
 TITLE: Interaction of **pesticides** with nonionic  
 tenzides and amino acids studied by OPTLC  
 AUTHOR(S): Cserhati, T.; Bórdas, B.; Tyihak, E.; Bohus, P.  
 CORPORATE SOURCE: Res. Inst. Plant Prot., Budapest, H-1525, Hung.  
 SOURCE: Proc. Int. Symp. Instrum. High Perform. Thin-Layer  
 Chromatogr., 2nd (1982), 74-88. Editor(s):  
 Kaiser, Rudolf E. Inst. Chromatogr.: Bad Duerkheim,  
 Fed. Rep. Ger.  
 CODEN: 48RSAB  
 DOCUMENT TYPE: Conference  
 LANGUAGE: English

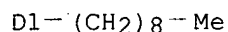
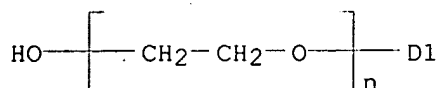
AB The possibility to apply overpressured thin-layer chromatog. (OPTLC) to  
 measure the relative energies of adsorptive interactions is discussed.  
 The adsorption of 23 nonionic tenzides and 2 amino acids on 6 different  
**pesticides** was studied and the data were evaluated by principal  
 component anal. The energies of interaction increase with decreasing no.  
 of ethylene-oxide groups per mol.; the binding energies were higher in  
 ionic environment and the 6 **pesticides** showed various adsorptive  
 patterns. The amino acids were adsorbed very weakly on the  
**pesticides** making improbable the formation of **pesticide**  
 -protein complexes.

IT 9004-96-0 9016-45-9  
 RL: BIOL (Biological study)  
 (**pesticides** interaction with)

RN 9004-96-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-  
 hydroxy- (9CI) (CA INDEX NAME)



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



L37 ANSWER 53 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1982:521639 HCAPLUS

DOCUMENT NUMBER: 97:121639

TITLE: Toxicity of **pesticides** to some aquatic animals. III. Toxicity of several surface active agents to *Oryzias latipes*, *Daphnia carinata* and tadpole of *Bufo bufo japonicus*

AUTHOR(S): Nishiuchi, Y.

CORPORATE SOURCE: Norinsuisansho Noyaku Kensasho, Japan

SOURCE: Seitai Kagaku (1982), 5(1), 37-41

CODEN: SKGKDR; ISSN: 0386-8141

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB The median tolerance concns. of 32 anionic, nonionic, cationic and amphoteric **surfactants** for *O. latipes*, *D. carinata* and the tadpole of *B. b. japonicus* at 25.degree. are tabulated. The **surfactants** were commonly used in the prepn. of **pesticide** formulations.

IT 683-10-3 1338-39-2 1338-43-8 9002-92-0

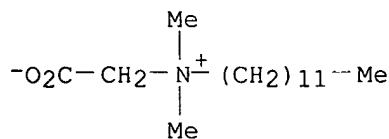
9004-96-0 9004-98-2 9016-45-9

9036-19-5 36290-04-7 85409-22-9

RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (toxicity of, to aquatic animals)

RN 683-10-3 HCAPLUS

CN 1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt (9CI) (CA INDEX NAME)



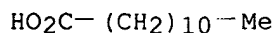
RN 1338-39-2 HCAPLUS

CN Sorbitan, monododecanoate (9CI) (CA INDEX NAME)

CM 1

CRN 143-07-7

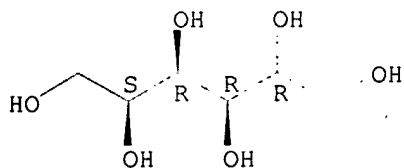
CMF C12 H24 O2



CM 2

CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.

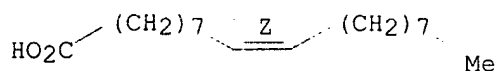


RN 1338-43-8 HCAPLUS  
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1  
CMF C18 H34 O2

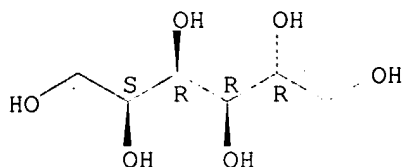
Double bond geometry as shown.



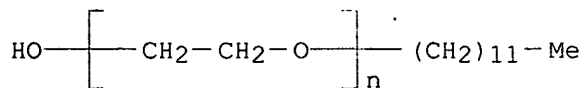
CM 2

CRN 50-70-4  
CMF C6 H14 O6

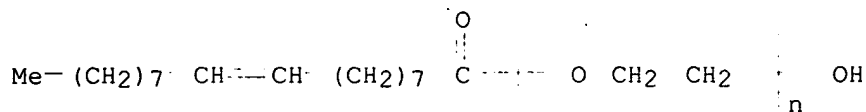
Absolute stereochemistry.



RN 9002-92-0 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), .alpha.-dodecyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)

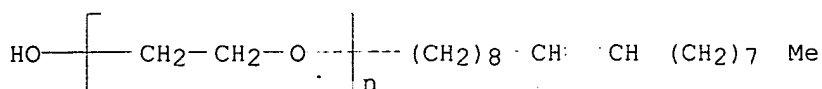


RN 9004-96-0 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



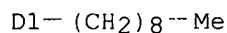
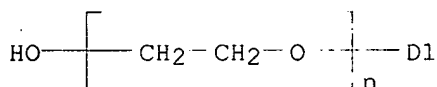
RN 9004-98-2 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(9Z)-9-octadecenyl-.omega.-hydroxy- (9CI) (CA INDEX NAME)



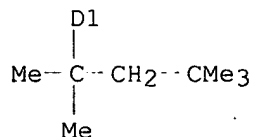
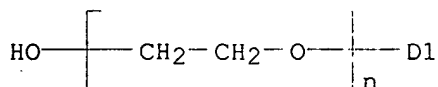
RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 9036-19-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



RN 36290-04-7 HCAPLUS

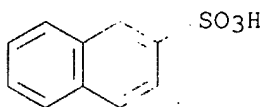
CN 2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt (9CI) (CA INDEX NAME)

CM 1

CRN 26353-67-3  
CMF (C10 H8 O3 S . C H2 O)x  
CCI PMS

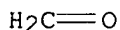
CM 2

CRN 120-18-3  
CMF C10 H8 O3 S



CM 3

CRN 50-00-0  
CMF C H2 O



RN 85409-22-9 HCAPLUS \*\*  
CN Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L37 ANSWER 54 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1982:478459 HCAPLUS

DOCUMENT NUMBER: 97:78459

TITLE: Trace organic substances in the River Lee [Great Britain]

AUTHOR(S): Waggott, A.

CORPORATE SOURCE: Water Res. Cent., Stevenage/Hertfordshire, UK

SOURCE: Chem. Water Reuse (1981), Volume 2, 55-99.

Editor(s): Cooper, William J. Ann Arbor Sci.: Ann Arbor, Mich.

CODEN: 46LSAZ

DOCUMENT TYPE: Conference

LANGUAGE: English

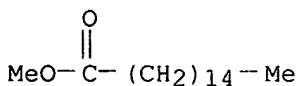
AB More than 150 org. compds. which were identified in the water of the River Lee (England) by gas chromatog.-mass spectrometry are given, and the sampling, concn., and anal. methods are described.

IT 112-39-0 112-61-8

RL: POL (Pollutant); OCCU (Occurrence)  
(water pollution by, of River Lee, England)

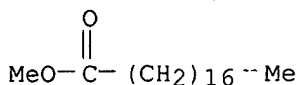
RN 112-39-0 HCAPLUS

CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 112-61-8 HCAPLUS

CN Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



L37 ANSWER 55 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1978:110304 HCAPLUS

DOCUMENT NUMBER: 88:110304

TITLE: Comparison of macroreticular resin and activated carbon as sorbents

AUTHOR(S): Chriswell, Colin D.; Ericson, Rhonda L.; Junk, Gregor A.; Lee, Kenneth W.; Fritz, James S.; Svec, Harry J.

CORPORATE SOURCE: Ames Lab., ERDA, Ames, IA, USA

SOURCE: Journal - American Water Works Association (1977), 69(12), 669-74

CODEN: JAWWA5; ISSN: 0003-150X

DOCUMENT TYPE: Journal

LANGUAGE: English

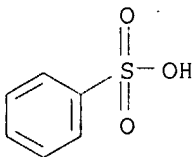
AB Tests indicate that Amberlite XAD 2 [112-40-3] is superior to activated C for isolating org. compds. from water. They do not show whether resins are superior to C for treating drinking water.

IT 98-11-3, uses and miscellaneous 112-39-0  
112-61-8

RL: REM (Removal or disposal); PROC (Process)  
(removal of, from drinking water, comparison of activated carbon and macroreticular resin for)

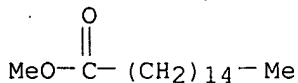
RN 98-11-3 HCAPLUS

CN Benzenesulfonic acid (8CI, 9CI) (CA INDEX NAME)



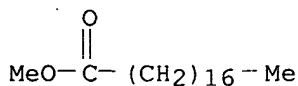
RN 112-39-0 HCAPLUS

CN Hexadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



RN 112-61-8 HCAPLUS

CN Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)



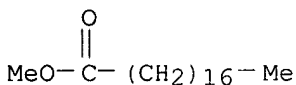
L37 ANSWER 56 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1973:54051 HCAPLUS

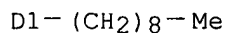
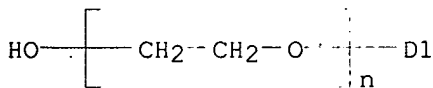


DOCUMENT NUMBER: 78:54051  
 TITLE: Stabilized organophosphorus pesticides  
 INVENTOR(S): Aries, Robert  
 PATENT ASSIGNEE(S): Dynachim S.a.r.l.  
 SOURCE: Fr. Demande, 14 pp. Addn. to Fr. 2.104,717.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	FR 2108995		19720630	FR 1970-38922	19701028 <--
AB	The N-metal derivs. of 2-substituted benzimidazoles are stabilizers for DDVP [62-73-7]. Thus, in pulp plates impregnated with a mixt. of DDVP, 97%, N-copper-2-methyl(4-thiazolyl)benzimidazole [38473-44-8], 0.6%, and 2-methyl(4-thiazolyl)benzimidazole [6528-92-3], 2.4%, DDVP showed only 0.8% degradation within 1 month, whereas under similar conditions unstabilized DDVP showed 51.2% degradation.				
IT	112-61-8 9016-45-9				
	RL: BIOL (Biological study) (as pesticide stabilizer)				
RN	112-61-8 HCAPLUS				
CN	Octadecanoic acid, methyl ester (9CI) (CA INDEX NAME)				



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



L37 ANSWER 57 OF 60 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1973:54049 HCAPLUS  
 DOCUMENT NUMBER: 78:54049  
 TITLE: Pesticidal composition containing an organophosphorus compound  
 INVENTOR(S): Aries, Robert  
 SOURCE: Fr. Demande, 11 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1



## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2129956	A	19711230	DE 1971-2129956	19710616 <--
DE 2129956	C3	19770714		
JP 55010562	B4	19800317	JP 1970-53226	19700618 <--
GB 1313464	A	19730411	GB 1971-14599	19710512 <--
FR 2096150	A5	19720211	FR 1971-20984	19710609 <--

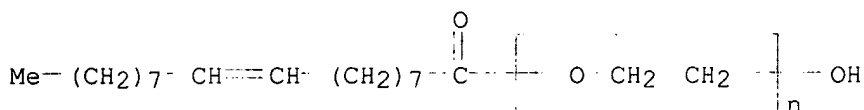
PRIORITY APPLN. INFO.: JP 1970-53226 19700618

AB Formulations for title emulsifiers contained 35-72% ethylene oxide-propylene oxide block copolymer [9003-11-6] with a mono-, di-, or tricyclohexylphenyl end groups, 21-36% magnesium dodecylbenzenesulfonate [27479-45-4] or calcium dodecylbenzenesulfonate (I) [26264-06-2], and optionally other ethylene oxide adducts. Thus, an emulsifier consisted of R2C6H3O(C3H6O)10(C2H4O)10H (R = cyclohexyl) (II) 46, I 33, and castor oil-(ethylene oxide)30 adduct 21%. A **pesticide** mixt. contained this emulsifier 5, EPN 50, and xylene 45%. II was prepd. by heating 1 mole dicyclohexylphenol, obtained by reacting 1 mole PhOH with 2 moles cyclohexene in the presence of activated alumina for 3 hr at 150-60.deg., 10 moles propylene oxide, and 10 moles ethylene oxide in the presence of KOH for 3 hr at 110-30.deg./0-8 atm gage.

IT 9004-96-0 9016-45-9  
 RL: USES (Uses)  
 (emulsifying agents contg., for phosphorus-contg. **pesticides**)

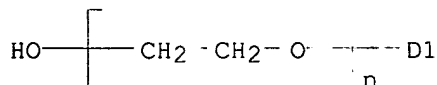
RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME).



RN 9016-45-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)



D1-(CH2)8-Me

L37 ANSWER 59 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1972:42779 HCAPLUS

DOCUMENT NUMBER: 76:42779

TITLE: Alcohol-free aerosol compositions containing active ingredients such as **pesticides**

PATENT ASSIGNEE(S): Johnson, S. C., and Son, Inc.

SOURCE: Brit. Amended, 9 pp.

CODEN: BSXXAH  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND.	DATE	APPLICATION NO.	DATE
GB 1021886		19710820		<--

PRIORITY APPLN. INFO.: US 19620131

AB Three-phase, self-propellant, alc.-free aq. compns. contg. active ingredients which may be sprayed into the atm. and function effectively as **pesticides**, such as pyrethrins, lindane (I) [58-89-9], or allethrin [584-79-2], insect repellants, or space deodorants are described. In an example, 2.0% I, 0.3% fragrance, 2.0% Siponic E-2, and 35.7% water are formulated with 50% of isobutane [75-28-5] and 10% of dichlorodifluoromethane [75-71-8], as propellant, to provide ingredients for an aerosol insecticide.

IT 1338-43-8 9004-99-3  
RL: BIOL (Biological study)  
(as emulsifiers, for insectide aerosol compositions)

RN 1338-43-8 HCAPLUS

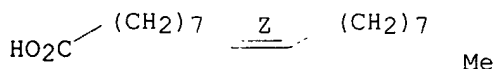
CN Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)

CM 1

CRN 112-80-1

CMF C18 H34 O2

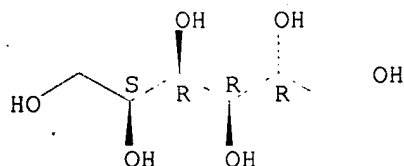
Double bond geometry as shown.



CM 2

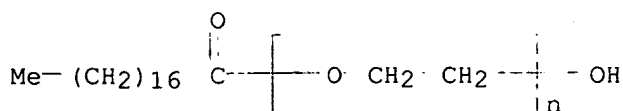
CRN 50-70-4  
CMF C6 H14 O6

Absolute stereochemistry.



RN 9004-99-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-.omega.-hydroxy- (9CI)  
(CA INDEX NAME)



L37 ANSWER 60 OF 60 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1969:522899 HCAPLUS

DOCUMENT NUMBER: 71:122899

TITLE: Stable water-in-oil aerosol **pesticide** compositions

INVENTOR(S): Soda, Yukio; Baba, Tadashi; Miura, Takashi; Kawajiri, Seizo

PATENT ASSIGNEE(S): Soda Aromatic Co., Ltd.; Takeda Chemical Industries, Ltd.

SOURCE: Jpn. Tokkyo Koho, 3 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

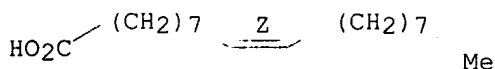
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 44012908	B4	19690610	JP	19671030 <---
AB	An oil-in-water emulsion contg. 0.5-5% each of mineral oil and a mixed <b>surfactant</b> comprising sorbital fatty acid ester of HLB (hydrophile-lipophile balance value) 1-10 and polyethylene glycol fatty acid ester of HLB 8-20 is shaken with 30-70% propellant in a closed container to effect phase inversion, giving the title compns. Thus, an insecticidal aerosol compn. was prepd. with 20% pyrethrin 0.2, a synergist 0.1, DDVP 1, sorbitan monooleate 1, polyethylene glycol monooleate 1, kerosine 1, liquid propane 50% by vol., and balance of water.				
IT	1338-43-8 9004-96-0				
	RL: BIOL (Biological study)				
	(stable water in oil aerosol insecticide formulations contg.)				
RN	1338-43-8 HCAPLUS				
CN	Sorbitan, mono-(9Z)-9-octadecenoate (9CI) (CA INDEX NAME)				

CM 1

CRN 112-80-1

CMF C18 H34 O2

Double bond geometry as shown.

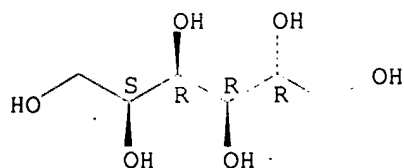


CM 2

CRN 50-70-4

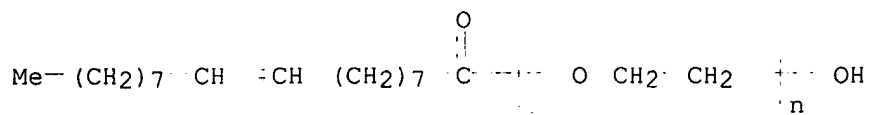
CMF C6 H14 O6

Absolute stereochemistry.



RN 9004-96-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-[(9Z)-1-oxo-9-octadecenyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)



MeO (CH<sub>2</sub>)<sub>7</sub> Z R (CH<sub>2</sub>)<sub>5</sub> Me

L55 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1992:595057 HCAPLUS  
DOCUMENT NUMBER: 117:195057  
TITLE: Evaluation of possible methanol fuel additives for  
reducing engine wear and/or corrosion  
AUTHOR(S): Estefan, R. M.; Brown, J. G.  
CORPORATE SOURCE: Southwest Res. Inst., USA  
SOURCE: Society of Automotive Engineers, [Special Publication]  
SP (1990), SP-840 (Methanol Fuel Formulations In-Use  
Exper.), 17-39  
CODEN: SAESA2; ISSN: 0099-5908  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The use of fuel additives is one possible approach to reduce wear and corrosion in MeOH-fueled automobile engines. Many (106) compds. added to M100 fuel in modest concns. (1%) were tested in a Ball on Cylinder Machine (BOCM) for their ability to improve lubricity. The most promising candidates were then tested in an engine using a modified ASTM Sequence V-D wear screening test. Additive performance was measured by comparing the buildup of wear metals in the oil to that obtained from an engine fueled with neat M100. The BOCM method of evaluating the additive candidates proved inadequate in predicting abrasive engine wear under the test conditions utilized for this research program.

IT 97-64-3, Ethyl lactate 141-24-2,  
Methyl ricinoleate  
RL: USES (Uses)  
(antiwear-corrosion inhibitor, for methanol, evaluation of, for diesel engine operation)

RN 97-64-3 HCAPLUS  
CN Propanoic acid, 2-hydroxy-, ethyl ester (9CI) (CA INDEX NAME)

OH O  
Me-CH-C OEt

RN 141-24-2 HCAPLUS  
CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).  
Double bond geometry as shown.

O OH  
MeO (CH<sub>2</sub>)<sub>7</sub> Z R (CH<sub>2</sub>)<sub>5</sub> Me

L55 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1992:497095 HCAPLUS  
DOCUMENT NUMBER: 117:97095  
TITLE: Hair preparations containing adenosine phosphates and

INVENTOR(S): fatty acid derivatives  
 Kurusu, Keiji; Hosokawa, Minoru; Takada, Koji  
 PATENT ASSIGNEE(S): Lion K. K., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

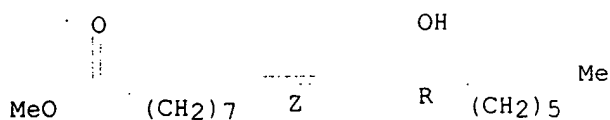
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04112817	A2	19920414	JP 1990-407048	19901226
PRIORITY APPLN. INFO.:			JP 1989-337738	19891226

AB A hair prepn. contains (1) adenosine 3',5'-cyclic phosphate (or its deriv.), (2) a surfactant ethylene oxide adduct, and (3) .gtoreq.1 compd. selected from fatty acids, fatty acid esters, pyrrolidone compds., urea compds., amine oxides, fatty acid amides, and alkylamines. The improvement of transdermal absorption of (1) compd. prevented gray hair formation. Thus, a hair tonic was prepd. contg. 95% by vol. EtOH 60, POE cetyl ether Na phosphate 1, Et linolate 2, Na 8-methoxy cAMP 0.05, l-menthol 0.1, biotin 0.001, benzyl nicotinate 0.05, fragrance trace, and water to 100 % by wt.

IT 141-24-2, Methyl ricinoleate 9016-45-9  
 RL: BIOL (Biological study)  
 (hair prepns. contg. cAMP deriv. and)

RN 141-24-2 HCAPLUS  
 CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

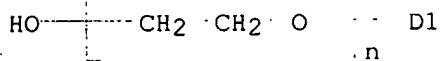
Absolute stereochemistry. Rotation (+).  
 Double bond geometry as shown.



RN 9016-45-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- (9CI)  
 (CA INDEX NAME)

*Ricinoleic  
 acid  
 methyl ester*

*Surfactant*



D1- (CH<sub>2</sub>)<sub>8</sub> - Me

L55 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1988:501958 HCAPLUS  
 DOCUMENT NUMBER: 109:101958  
 TITLE: Reversible heat-sensitive recording material



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L70 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 141-24-2 REGISTRY

CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, (9Z,12R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 9-Octadecenoic acid, 12-hydroxy-, methyl ester, [R-(Z)]-

CN Ricinoleic acid, methyl ester (6CI, 8CI)

OTHER NAMES:

CN cis-Ricinoleic acid methyl ester

CN Flexricin P 1

CN Methyl 12-D-hydroxy-9-cis-octadecenoate

CN Methyl ricinate

CN Methyl ricinoleate

CN Ricinic acid methyl ester

FS STEREOSEARCH

DR 7705-99-9

MF C19 H36 O3

CI COM

LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CSCHEM, GMELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PROMT, TOXCENTER, USPAT2, USPATFULL

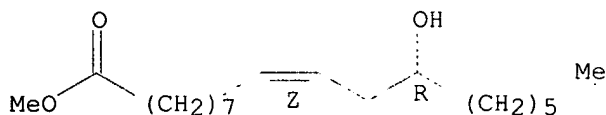
(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

384 REFERENCES IN FILE CA (1957 TO DATE)

24 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

385 REFERENCES IN FILE CAPLUS (1957 TO DATE)

46 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 138:256855

REFERENCE 2: 138:239188

REFERENCE 3: 138:171914

REFERENCE 4: 138:152314

REFERENCE 5: 138:105948

REFERENCE 6: 138:89592

REFERENCE 7: 138:71953

REFERENCE 8: 138:14532

REFERENCE 9: 137:371646

REFERENCE 10: 137:338626